

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - nucleic search, using frame_plus_p2n model
Run on: August 10, 2005, 05:00:04 ; Search time 3121 Seconds
(without alignments)
3063.017 Million cell updates/sec
US-10-660-763-2
Title: US-10-660-763-2
Perfect score: 3879
Sequence: 1 MGSSSLCSPQGHVLIQQMQ.....QRPSFTIYQELQSIKKRHR 752
Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0
Searched: 21966066 seqs, 6356167942 residues
Total number of hits satisfying chosen parameters: 43932132
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
Command line parameters:
-MODEL=frame+ p2n.model -DEV=xlp
-Q=/cgn2_1/USPTO.spot_p/US10660763/runat_03082005_182825_28664/app_query.fasta_1.903
-DB=Pending_Patents_NA_New -QFMT=fastap -SURFIX=rpnp -MINMATCH=0.1 -LOOPELU=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=BIOSUM62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US10660763 @CIGN 1.1 268 @runat_03082005_182825_28664 -NCPU=6 -ICPU=3
-NO WMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Pending Patents NA New:
1: /cgn2_6/ptodata/1/pna/PCT_NEW_COMB.seq:
2: /cgn2_6/ptodata/1/pna/PCT_NEW_COMB.seq2:
3: /cgn2_6/ptodata/1/pna/US06_NEW_COMB.seq:
4: /cgn2_6/ptodata/1/pna/US07_NEW_COMB.seq:
5: /cgn2_6/ptodata/1/pna/US08_NEW_COMB.seq:
6: /cgn2_6/ptodata/1/pna/US09_NEW_COMB.seq:
7: /cgn2_6/ptodata/1/pna/US09_NEW_COMB.seq1:
8: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq:
9: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq10:
10: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq2:
11: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq3:
12: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq4:
13: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq5:
14: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq6:
15: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq7:
16: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq8:
17: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq9:
18: /cgn2_6/ptodata/1/pna/US11_NEW_COMB.seq:
19: /cgn2_6/ptodata/1/pna/US11_NEW_COMB.seq2:
20: /cgn2_6/ptodata/1/pna/US11_NEW_COMB.seq3:
21: /cgn2_6/ptodata/1/pna/US11_NEW_COMB.seq4:
22: /cgn2_6/ptodata/1/pna/US11_NEW_COMB.seq5:
23: /cgn2_6/ptodata/1/pna/US60_NEW_COMB.seq:
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	3783.5	97.5	6609	8	US-10-302-689A-149442	Sequence 149442,
2	2405	62.0	6055	8	US-10-302-689A-149441	Sequence 149441,
3	1850	47.7	2947	1	PCT-US05-00517-3524	Sequence 3524, Ap
4	1654	42.6	1400	19	US-11-060-756-796	Sequence 796, App
5	1654	42.6	1400	19	US-11-060-756-796	Sequence 5068, Ap
6	1206.5	31.1	3369	22	US-11-097-143-18926	Sequence 18926, A
7	1074.5	27.7	1183	22	US-11-136-527-3335	Sequence 3335, Ap
8	1074.5	27.7	1183	22	US-11-136-527-7431	Sequence 7431, Ap
9	1057	27.2	600	19	US-11-060-756-3332	Sequence 3332, Ap
10	1057	27.2	600	19	US-11-060-756-3333	Sequence 3333, Ap
11	1057	27.2	600	19	US-11-060-756-7604	Sequence 7604, Ap
12	1057	27.2	600	19	US-11-060-756-7605	Sequence 7605, Ap
13	1017	26.2	638	23	US-60-680-544-39317	Sequence 39317, A
14	1017	26.2	638	23	US-60-680-473-39317	Sequence 39317, A
15	1013	26.1	3198	22	US-11-097-143-24845	Sequence 24845, A
16	913.5	23.5	1433	23	US-60-669-241-2794	Sequence 2794, Ap
c 17	833	21.5	699	22	US-11-136-527-1734	Sequence 1734, Ap
18	792	20.4	657	23	US-60-680-544-17507	Sequence 17507, A
19	792	20.4	657	23	US-60-680-473-17507	Sequence 17507, A
20	753.5	19.4	8277	22	US-11-097-143-24844	Sequence 24844, A
c 21	753.5	19.4	28918	22	US-11-097-143-18925	Sequence 18925, A
22	740	19.1	798	23	US-60-680-544-19988	Sequence 19988, A
23	740	19.1	798	23	US-60-680-473-19988	Sequence 19988, A
24	666.5	17.2	6021	18	US-11-191-644-13	Sequence 13, Appl
25	664	17.1	600	22	US-11-136-527-5830	Sequence 5830, Ap
26	655	16.9	6096	18	US-11-191-644-15	Sequence 15, Appl
27	625	16.1	4158	18	US-11-191-644-19	Sequence 19, Appl
28	624.5	16.1	3393	23	US-60-699-675-1	Sequence 1, Appli
29	624.5	16.1	3840	22	US-11-012-067-9	Sequence 9, Appli
30	624.5	16.1	5434	13	US-10-940-774A-927	Sequence 927, App
31	623.5	16.1	5744	22	US-11-012-067-10	Sequence 10, Appl
32	623	16.1	5881	18	US-11-191-644-8	Sequence 8, Appli
33	622	16.0	5393	11	US-10-491-603-1	Sequence 1, Appli
34	622	16.0	5384	18	US-11-191-644-7	Sequence 7, Appli
35	622	16.0	5763	13	US-10-940-774A-3759	Sequence 3759, Ap
36	618.5	15.9	4221	18	US-11-191-644-17	Sequence 17, Appl
37	617.5	15.9	5436	23	US-60-659-397-590	Sequence 590, App
38	617.5	15.9	5763	23	US-60-659-397-589	Sequence 589, App
39	609.5	15.7	1937	22	US-11-015-730-19	Sequence 19, Appl
40	609.5	15.7	2293	22	US-11-097-143-122	Sequence 122, App
41	609.5	15.7	2432	22	US-11-097-143-122	Sequence 26930, A
42	607.5	15.7	3849	18	US-11-191-644-3	Sequence 3, Appli
43	605.5	15.6	1933	2	PCT-US04-23309-10	Sequence 10, Appl
44	605.5	15.6	2104	4	PCT-US04-23309-9	Sequence 9, Appli
45	605.5	15.6	2183	2	PCT-US04-23309-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1
US-10-302-689A-149442
; Sequence 149442, Application US/10302689A
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Asundi, Vinod
; APPLICANT: Ballinger, Dennis
; APPLICANT: Labat, Ivan
; APPLICANT: Leshkowitz, Dena
; APPLICANT: Liu, Jin
; APPLICANT: Loeb, Deborah
; APPLICANT: Montgomery, Julia, R.
; APPLICANT: Pace, Ann M.
; APPLICANT: Sheridan, James P.
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 502CIP
; CURRENT APPLICATION NUMBER: US/10/302.689A
; CURRENT FILING DATE: 2002-11-22

; PRIOR APPLICATION NUMBER: 10/273,573
; PRIOR FILING DATE: 2002-10-18
; PRIOR APPLICATION NUMBER: 10/084,643
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/989,660
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 10/014,487
; PRIOR FILING DATE: 2001-11-08
; PRIOR APPLICATION NUMBER: 09/952,981
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/905,059
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/898,888
; PRIOR FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: 09/919,002
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 09/770,160
; PRIOR FILING DATE: 2001-01-26
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 158931
; SOFTWARE: PE SEQ_genes Version 1.0
; SEQ ID NO 149442
; LENGTH: 6609
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-302-689A-149442

Alignment Scores:
Pred. No.: 2,81e-220 Length: 6609
Score: 3783.50 Matches: 751
Percent Similarity: 84.29% Conservative: 0
Best Local Similarity: 84.29% Mismatches: 1
Query Match: 97.54% Indels: 139
DB: 8 Gaps: 2

US-10-660-763-2 (1-752) x US-10-302-689A-149442 (1-6609)

QY 1 MetGlyPheSerSerGluLeuCySerProGlnGlyHisGlyValLeuGlnGlnMetGln 20
DB 1 ATGGGCTTCTCTCTGAGCTGTGACGGCCACGGGCGCCAGGGGCTCTGCAGCAATGCAG 60
QY 21 GluAlaGluLeuLeuGluGlyMetArgLysTrpMetAlaGlnArgValLysSer 40
DB 61 GAGGCCGAGCTTCGCTACTGGAGGCGATGAGAAAGTGATGGCCAGCGGGTCAAGAGT 120
QY 41 AspArgGluTyAlaGlyLeuLeuHisHisMetSerLeuGlnAspSerGlyGlyGlnSer 60
DB 121 GACAGGAGTATGCAGGAGCTGTTCCACACATGTCCTCGAGGACAGTGGGGGCGCAGAGC 180
QY 61 ArgAlaIleSerProAspSerProIleSerGlnSerTrpAlaGluIleThrSerGlnThr 80
DB 181 CGGGCCATCAGCCCTGACAGCCCTCATCAGTCACTCTGGGCTGAGATCACCATCCAACT 240
QY 81 GluGlyLeuSerArgLeuLeuArgGlnHisAlaGluAspLeuAsnSerGlyProLeuSer 100
DB 241 GAGGGCTGAGCGCTTGTGCGGCGACGACGACAGGATCTGAATCAGGGCCCCCTGAGC 300
QY 101 LysLeuSerLeuLeuIleArgGluArgGlnGlnLeuArgLysThrThrSerGluGlnTrp 120
DB 301 NAGCTGAGCTGCTCATCCGGGAACCGGACGAGCTTCGCAAGACCTTACAGCGCAGCTGG 360
QY 121 GlnGlnLeuGlnGlnGlnLeuThrLysThrHisSerGlnAspIleGluLysLeuLysSer 140
DB 361 CAGCAGCTGACGAGGAGCTCACCAGAGCCACGACGACGACGACGACGACGACGACGACG 420
QY 141 GlnTyArgAlaLeuAlaArgAspSerAlaGlnAlaLysArgLysTyTrpGlnGluAlaSer 160
DB 421 CAGTACCGAGCTCTGGCAGCGGACAGTGGCCCAAGCGCAAGGACGACGAGGCGCAGC 480
QY 161 LysAspLysAspArgAspLysAlaLysAspLysTyTrpValArgSerLeuTrpLysLeuPhe 180

481 AAAGACAAAGGACCGTGACAAAGGCCAAAGGCAAGATATGTGGCGAGCCCTGTGGAAAGCTCTTT 540
QY 181 AlaHisHisAsnArgTyTrValLeuGlyValArgAlaAlaGlnLeuHisHisGlnHisHis 200
DB 541 GCTCACCACCAACCGCTATGTCTGGGCGTGGGCTGGCGAGCTACACCAACGACGACAC 600
QY 201 HisGlnLeuLeuProGlyLeuLeuArgSerLeuGlnAspLeuHisGluGluMetAla 220
DB 601 CACCAGCTCTGTGCTCCCGGCTGTGCGGTCTCATGCGAGACCTGCACGAGGAGATGGT 660
QY 221 CysIleLeuLysGluIleLeuGlnGluTyTrLeuGluLysSerSerLeuValGlnAspGlu 240
DB 661 TGCATCTCTGAAGGAGATCTGCAGGAATACCTGGAGATTAGCAGCTGTGTGCAGGATGAG 720
QY 241 ValValAlaIleHisArgGluMetAlaAlaAlaAlaAlaAlaAlaAlaAlaAlaAla 260
DB 721 GTGGTGGCCATTACCCGGGAGATGGCTGCAGCTGCTCCCGCATCCAGCTCAGGCTGAG 780
QY 261 TyrGlnGlyPheLeuArgGlnTyTrGlySerAlaProAspValProProCysValThrPhe 280
DB 781 TACCAAGGCTTCTCTGGCAGCATGTGGGTTCGACCTGACGTCCACCTGTGTCACTGTC 840
QY 281 AspGluSerLeuLeuGluGlyGluProLeuGluProGlyGluLeuGlnLeuAsnGlu 300
DB 841 GATGAGTCACTGCTTGAGAGGGTGAACCGCTGGAGCCTGGGAGCTCCAGCTCAACGAG 900
QY 301 LeuThrValGluSerValGlnHisThrLeuThrSerValThrAspGluLeuAlaValAla 320
DB 901 CTGACTGTGGAGAGCGTGACGACACACGCTGACCTCAGTGACAGATGAGCTGGCTGTGCC 960
QY 321 ThrGluMetValPheArgGlnGlnMetValThrGlnLeuGlnGlnGlnLeuArgAsn 340
DB 961 ACCGAGATGGTGTTCAGGGCGGAGGAGATGGTTACGACAGCTGCAACAGAGCTCCGGA 1020
QY 341 GluGluGluAsnThrHisProArgGluArgValGlnLeuLeuGlyLysArgGlnValLeu 360
DB 1021 GAAGGAGGAACACACCCCGGAGCGGGTGCAGCTGCTGGGCAAGAGGCAAGTGTGTG 1080
QY 361 GlnGluAlaLeuGlnGlyLeuGlnValAlaLeuCysSerGlnAlaLysLeuGlnAlaGln 380
DB 1081 CAAGAAGCACTCAGGGGCTGCAGGTAGCGCTGTGCAGCAGGCGCAGCTCAGGCCCCAG 1140
QY 381 GlnGluLeuLeuGlnThrLysLeuGluHisLeuGlyProGlyGluProProValLeu 400
DB 1141 CAGGAGTTCTGCAGACCAAGCTGGAGCACCTGGGCGGCGGAGCGGCGGCGGAGG 1200
QY 401 LeuLeuGlnAspAspArgHisSerThrSerSerSerGluGlnGluArgGluGlyArg 420
DB 1201 CTCTCGAGGATGACCGCACTCCAGCTGCTCTCGAGCAGGAGCGAGGGGGGGAAGG 1260
QY 421 ThrProThrLeuGluIleLeuLysSerHisIleSerGlyIlePheArgProLysPheSer 440
DB 1261 ACACCCACGCTGGAGATCTCTTAAGAGCCACATCTCAGGAATCTTCGCCCCCAAGTTCTCG 1320
QY 440 ----- 440
DB 1321 CTCCTCCACCGCTGCAGCTCATTCGGAGGTGCAGAGCCCTGCATGAGCAGCTGTGG 1380
QY 440 ----- 440
DB 1381 TACCATGGGCCCATCCCGAGGGCAGAGGTGGCTGAGCTGTGTGTCACCTCTGGGGACTTC 1440
QY 440 ----- 440
DB 1441 CTGGTGGGAGAGCCAGGCGACAGAGTACGTGCTGTGCTGTGGATGTGTCTG 1500
QY 440 ----- 440
DB 1501 CCGCGGCACTTCATCATCCAGTCTCTGGATGGGTCTACGCCCCCTCAGAAATGGAGGCTGCT 1560
QY 441 ----- AsnLeuTyArgLeuGluGlyGluGlyPheProSer 452
DB 1561 GACCCCGGCTCCCTGCGCTGCAGAACCTGTACCGACTGGAAGGGGAAGGCTTCTCTAGC 1620

```
Qy 453 IleProLeuLeuIleAaspHisLeuLeuSerThrGlnGlnProLeuThrLysLysSerGly 472
Db 1621 ATTCTTTGGCTCATCGACACCTACTGAGCACCAGCAGCCCTCACCAGAGAGTGGT 1690
Qy 473 ValValLeuHisArgAlaValProLysAspLysTrpValLeuAenHisGluAspLeuVal 492
Db 1681 GTTGTCTTCACAGGGCTGTCCCAAGGACAAGTGGGTGCTGAACCATGAGGACCTGGTG 1740
Qy 493 LeuGlyGluGlnIleGlyArg----- 499
Db 1741 TTGGGTGAGCAGATTGGACGGGTTCCCCAGCGAGGGTCAAACTCCAGAGAGCTGGGTG 1800
Qy 499 ----- 499
Db 1801 AGGGGTCCGAACACGGGGGCCCTCACCAGGGGTAGGAGCAGAAATGGGTAGGAAGCGG 1860
Qy 500 -----GlyAsn 501
Db 1861 AGAAGAGAACTGCGGGACTGGGAAGCGCGTGGTAGGAGCCCAAGACCGCTTTTCAGGGGAAC 1920
Qy 502 PheGlyGluValPheSerGlyArgLeuArgAlaAspAenThrLeuValAlaValLysSer 521
Db 1921 TTTGGCGAAGTGTTCAGCGGAGCGCTGCGAGCCGACACACCTGTGGTGGCGGTGAGTCT 1980
Qy 522 CysArgGluThrLeuProProAspLeuLysAlalysPheLeuGlnGluAlaAArgIleLeu 541
Db 1981 TGTCCAGAGAGCGCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGCGAGGATCCTG 2040
Qy 542 LysGlnTrpSerHisProAsnIleValArgLeuIleGlyValCysThrGlnLysGlnPro 561
Db 2041 AAGCAGTACACCCACCCCAACATCGTGGTCTCATTTGGTGTCTGCACCCAGAACGAGCC 2100
Qy 562 IleTyrIleValMetGluLeuValGlnGlyAspPheLeuThrPheLeuArgThrGlu 581
Db 2101 ATCTACATCGTCATGGAGCTTGTGAGGGGGCGACCTTCCTGACCTTCCTCCGACGGAG 2160
Qy 582 GlyAlaArgLeuArgValLysThrLeuLeuGlnMetValGlyAspAlaAlaAArgLysMet 601
Db 2161 GGGGCCCGCCCTGCGGGTGAAGACTCTGCTCAGATGGTGGGGATGCGAGCTGCTGGCATG 2220
Qy 602 GluTyrIleGluSerLysCysValIleHisArgAspLeuAlaAArgAsnCysLeuVal 621
Db 2221 GAGTACTCGGAGAGCAAGTGTGTCATCCACGGGACCTGGCTGCTCGGAACCTGCTGGTG 2280
Qy 622 ThrGluLysAenValLeuLysIleSerAspPheGlyMetSerArgGluGluAlaAspGly 641
Db 2281 ACAGAGAAGATGTCCTGAAGATCAGTGACTTTGGGATGTCCTCCAGAGAGAGCTGTATGG 2340
Qy 642 ValTyrAlaAlaSerGlyGlyLeuArgGlnValProValLysTrpThrAlaProGluAla 661
Db 2341 GTCTATGCAGCCTCAGGGGGCCTCAGACAAAGTCCCGTGAAGTGGACCGCACCTGAGGCC 2400
Qy 662 LeuAsnTyrGlyArgTyrSerSerGluSerAspValTrpSerPheGlyIleLeuLeuTrp 681
Db 2401 CTTAACTACGGCCCGCTACTCTCCGAAGACAGCTGTGGAGCTTTGGCATCTTCTCTGG 2460
Qy 682 GluThrPheSerLeuGlyAlaSerProTyrProAenLeuSerAenGlnThrArgGlu 701
Db 2461 GAGACCTTCAGCTTGGGGCCCTCCCTTATCCCAACCTCAGCAATCAGACAGACGGGAG 2520
Qy 702 PheValGluLysGlyArgLeuProCysProGluLeuCysProAspAlaValPheArg 721
Db 2521 TTTGTGGAGAAGGGGGCGCTGCGCTGCCAGAGCTGTCTCTGATGCGGTGTTTCAGG 2580
Qy 722 LeuMetGluGlnCysTrpAlaTyrGluProGlyGlnArgProSerPheSerThrIleTyr 741
Db 2581 CTCTATGGAGCAGTGTGGGGCTATGAGCTGGGAGCGGGCCAGCTTCAGACCATCTAC 2640
Qy 742 GlnGluLeuGlnSerIleArgLysArgHisArg 752
Db 2641 CAGGAGCTGCAGAGCATCCGAAGCGGCATCGG 2673
```

```
RESULT 2
US-10-302-689A-149441
: Sequence 149441, Application US/10302689A
: GENERAL INFORMATION:
: APPLICANT: Tang, Y. Tom
: APPLICANT: Asundi, Vinod
: APPLICANT: Ballinger, Dennis
: APPLICANT: Labat, Ivan
: APPLICANT: Leshkowitz, Dena
: APPLICANT: Liu, Jin
: APPLICANT: Loeb, Deborah
: APPLICANT: Montgomery, Julia, R.
: APPLICANT: Pace, Ann M.
: APPLICANT: Sheridan, James P.
: APPLICANT: Drmanac, Radoje T.
: TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
: FILE REFERENCE: 502CIP
: CURRENT APPLICATION NUMBER: US/10/302,689A
: CURRENT FILING DATE: 2002-11-22
: PRIOR APPLICATION NUMBER: 10/273,573
: PRIOR FILING DATE: 2002-10-18
: PRIOR APPLICATION NUMBER: 10/084,643
: PRIOR FILING DATE: 2002-02-26
: PRIOR APPLICATION NUMBER: 09/989,660
: PRIOR FILING DATE: 2001-11-21
: PRIOR APPLICATION NUMBER: 10/014,487
: PRIOR FILING DATE: 2001-11-08
: PRIOR APPLICATION NUMBER: 09/952,981
: PRIOR FILING DATE: 2001-09-14
: PRIOR APPLICATION NUMBER: 09/922,279
: PRIOR FILING DATE: 2001-08-03
: PRIOR APPLICATION NUMBER: 09/905,059
: PRIOR FILING DATE: 2001-07-12
: PRIOR APPLICATION NUMBER: 09/898,888
: PRIOR FILING DATE: 2001-07-03
: PRIOR APPLICATION NUMBER: 09/919,002
: PRIOR FILING DATE: 2001-07-30
: PRIOR APPLICATION NUMBER: 09/770,160
: PRIOR FILING DATE: 2001-01-26
: Remaining Prior Application data removed - See File Wrapper or PALM.
: NUMBER OF SEQ ID NOS: 158931
: SOFTWARE: pc-seq_genes Version 1.0
: SEQ ID NO 149441
: LENGTH: 6055
: TYPE: DNA
: ORGANISM: Homo sapiens
US-10-302-689A-149441

Alignment Scores:
Pred. No.: 2,53e-136 Length: 6055
Score: 2405.00 Matches: 488
Percent Similarity: 73.05% Conservative: 0
Best Local Similarity: 73.05% Mismatches: 0
Query Match: 62.00% Indels: 180
DB: 8 Gaps: 3

US-10-660-763-2 (1-752) x US-10-302-689A-149441 (1-6055)

Qy 224 LysGluIleLeuGlnGluTyrLeuGluIleSerSerLeuValGlnAaspGluValValAla 243
Db 2 AAGGAGATCTCTGCGAGGAATACCTGGAGATTAGCAGCTTGGTGAGGATGAGTGGTGCC 61
Qy 244 IleHisArgGluMetAlaAlaAlaAArgIleGlnProGluAlaGluTyrGlnGly 263
Db 62 ATTCACCGGAGATGGCTGCAGCTGCTGCCGATCCAGCTGAGGCTGAGTACCAAGGC 121
Qy 264 PheLeuArgGlnTyrGlySerAlaProAspValProProCysValThrPheAaspGluSer 283
Db 122 TTCCTGCGACAGTATGGTCCGACACCTGAGCTCCACCCCTGTGTGCATTCGATGAGTCA 181
Qy 284 LeuLeuGluGlyGluProLeuGluProGlyGluLeuGlnLeuAenGluLeuThrVal 303
Db 182 CTGCTTGAAGGGGTGAACCGCTGGAGCCTGGGAGCTCCAGCTGGAACGAGCTGACTGTG 241
```

QY	525	ThrLeuProAspLeuLeuAlaArgPheLeuGlnGluAlaArgIleLeuLeuGlnTyr	544
Db	1199	ACGCTCCCACTGACCTCAAGGCCAAGTTTCTACAGGAAGCAGGATCCTGAAGCAGTAC	1258
QY	545	SerHisProAsnIleValArgLeuIleGlyValCysThrGlnLysGlnProIleTyrIle	564
Db	1259	AGCCACCCCAATCGTGGGTCTCATTTGGTGTCTGCACCCAGAACAGACCCATCTACATC	1318
QY	565	ValMetGluLeuValGlnGlyGlyAspPheLeuThrPheLeuArgThrGluGlyAlaArg	584
Db	1319	GTCAATGAGCTTGTGCAGGGGGCGACCTTCCTGACCTCCCGCACGAGGGGGCCGCG	1378
QY	585	LeuArgValLysThrLeuLeuGlnMetValGlyAspAlaAlaAsnIleMetGluThrLeu	604
Db	1379	CTCGGGGTGAAGACTCTGCTGCAGATGTTGGTGGGGATGTCAGCTGCTGGCATGAGTACCTG	1438
QY	605	GluSerLysCysCysIleHisArgAspLeuAlaAlaArgAsnCysLeuValThrGluLys	624
Db	1439	GAGAGCAAGTGTGTCATCCACCGGGACCTGGCTGCTCGGAATCTGCTGGTGACAGAGAAG	1498
QY	625	AsnValLeuLysIleSerAspPheGlyMetSerArgGluGluAlaAspGlyValTyrAla	644
Db	1499	AATGTCCTGAAGATCAGTCACTTTGGGATGTCCTCCGAGAGGAAGCTGATGGGTCTATGCA	1558
QY	645	AlaSerGlyGlyLeuArgGlnValProValLysThrAlaProGluAlaLeuAsnTyr	664
Db	1559	GCCTCAGGGGGCCCTCAGACAAAGTCCCCGTGAGTGGAGCCGACCTGAGGGCCCTTAACCTAC	1618
QY	665	GlyArgTyrSerSerGluSerAspValTrpSerPheGlyIleLeuLeuTrpGluThrPhe	684
Db	1619	GGCCGCTACTCTCCGAAAGCGAGTGTGGAGCTTTGGCATCTTGTCTCGGAGACCTTC	1678
QY	685	SerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnThrArgGluPheValGlu	704
Db	1679	AGCCTCGGGGGCCCTCCCTCTATCCCAACCTCAGCAATCAGCAGACACGGAGTTTGTGGAG	1738
QY	705	LysGlyGlyArgLeuProCysProGluLeuCysProAspAlaValPheArgLeuMetGlu	724
Db	1739	AAGGGGGGGCGTCTCCCTCCAGAGCTGTGTCTGTATGTCGTTCAGGCTCATGGAG	1798
QY	725	GlnCysTrpAlaTyrGluProGlyGlnArgProSerPheSerThrIleTyrGlnGluLeu	744
Db	1799	CAGTGTCTGGGCTATGAGGCTGGGCGAGGCGGCCAGCTTCAGCACCATCTACAGAGCTG	1858
QY	745	GlnSerIleArgLysArgHisArg	752
Db	1859	CAGAGATCCGAAAGCGCATCGG	1882
RESULT 3			
PCT-US05-00517-3524			
; Sequence 3524, Application PC/TUS0500517			
; GENERAL INFORMATION:			
; APPLICANT: THE OHIO STATE UNIVERSITY			
; TITLE OF INVENTION: METHODS OF USING DATABASES TO CREATE GENE-EXPRESSION MIC			
; TITLE OF INVENTION: MICROARRAYS CREATED THEREBY, AND USES OF THE MICROARRA			
; FILE REFERENCE: 18525-04130			
; CURRENT APPLICATION NUMBER: PCT/US05/00517			
; PRIOR FILING DATE: 2005-01-07			
; PRIOR APPLICATION NUMBER: 60/535,111			
; PRIOR FILING DATE: 2004-01-08			
; NUMBER OF SEQ ID NOS: 3859			
; SOFTWARE: PatentIn version 3.3			
; SEQ ID NO 3524			
; LENGTH: 2947			
; TYPE: DNA			
; ORGANISM: Canis familiaris			
PCT-US05-00517-3524			
Alignment Scores:			
Pred. No.:		7, 79e-103	Length:
Score:		1850.00	Matches:
Percent Similarity:		63.86%	Conservative:
Best Local Similarity:		46.02%	Mismatches:
			210

304	QY	GluSerValGlnHisThrLeuThrSerValThrAspGluLeuAlaValAlaThrGluMet	323
242	DB	GAGAGCGTCGCACACACG-----	259
324	QY	ValPheArgArgGlnGluMetValThrGlnLeuGlnGlnLeuArgAsnGluGlu	343
259	DB	-----	259
344	QY	AsnThrHisProArgGluArgValGlnLeuLeuGlyLysArgGlnValLeuGlnGluAla	363
260	DB	-----GTGCAGCTGCTGGCAAGAGGCAAGTGTCTCAAGAGCA	298
364	QY	LeuGlnGlyLeuGlnValAlaLeuCysSerGlnAlaLysLeuGlnAlaGlnGlnLeu	383
299	DB	CTCAGGGGCTGCAGGTACGCTGTGCAGCCAGCTGCAGGCCACAGAGATTG	358
384	QY	LeuGlnThrLysLeuGlnHisLeuGlyProGlyGluProProValLeuLeuGln	403
359	DB	CTCAGACCAAGCTGCAGCACCTGGGCCCCCGCAGCCCGCTGTGCTCTCTGCAG	418
404	QY	AspAspArgHisSerThrSerSerGluGlnGlnArgGluGlyArgThrProThr	423
419	DB	GATGACCGCCACTCCACAGCTGCTCTCGAGCAGAGCGAGAGGGGGAAGACACCCACG	478
424	QY	LeuGluLeuLeuLysSerHisLysSerGlyLeuPheArgProLysPheSer	440
479	DB	CTGCAGATCCTTAAGAGCCACATCTCAGGAATCTTCGCCCCAAGTTCTGCTCCCTCCA	538
440	QY	-----	440
539	DB	CCGCTGCAGCTCATTCGGAGGTGCAGAGCCCTGCATGACGACCTGTGTACCATGGG	598
440	QY	-----	440
599	DB	GCCATCCGAGGGCAGAGGTGGCTGAGCTGCTGGTGCACTCTGGGGACTTCTCGTGGGG	658
440	QY	-----	440
659	DB	GAGAGCCAGGGCAAGAGGAGTACGTGCTGTGGTGCTGTGGATGGTGTGCCCCGGCAC	718
440	QY	-----	440
719	DB	TTTCATCATCCAGCTCTTGGATGGCTCACGCCCCCTCAGAAATGGAGGTGCTGACCCCGGG	778
441	QY	-----AsnLeuTyArgLeuGluGlyGluGlyPheProSerIleProLeu	455
779	DB	TCCCTTGGCCCTGCAGAACCTGTACCGACTGGAAGGGGAGGCTTCTCTAGCATTCCTTTG	838
456	QY	LeuIleAspHisLeuLeuSerThrGlnGlnProLeuThrLysLysSerGlyValValLeu	475
839	DB	CTCATCGACCACTACTGAGCACCCAGCAGCCCTCACCAGAAAGAGTGGTGTGTCTG	898
476	QY	HisArgAlaValProLysAspLysTrpValLeuAsnHisGluAspLeuValLeuGlyGlu	495
899	DB	CACAGGGCTGTGCCCAAGSACAAGTGGGTGTGAACCATGAGGACCTGGTGTGGGTGAG	958
496	QY	GlnIleGlyArg-----	499
959	DB	CAGATTGGACGGGTTCCCGCAGCGAGGGTCAAACTCCAGAGAGCTGGGTGAGGGGTCCG	1018
499	QY	-----	499
1019	DB	AACACGGGGGCCCTTACCAGGGGTAGGAAGCAGATGGGTAGGAAGCGGAGAGAGAA	1078
500	QY	-----GlyAsnPheGlyGlu	504
1079	DB	CTGCGGAGCTGGGAAGGCCGTGTAGGAGCCCAAGACCGTTTCAGGGGAACTTTGGCGAA	1138
505	QY	ValPheSerGlyArgLeuArgAlaAspAsnThrLeuValAlaValLysSerCysArgGlu	524
1139	DB	GTGTTTCAGCGGACGCTTCGAGCCGACACACCTGGTGGCGGTGAAGTCTTGTCTGAGAG	1198

Query Match: 47.69% Indels: 90
DB: 1 Gaps: 11
US-10-660-763-2 (1-752) x PCT-US05-00517-3524 (1-2947)
QY 1 MetGlyPheSerSerGluLeuCysSerProGlnGlyHisGlyValLeuGlnGlnMetGln 20
DB 314 ATGGGGTTGGAGTGACCTG-----AGAAATTCACATGAAGCTGTGCTAAATATGCAA 367
QY 21 GluAlaGluLeuArgLeuGluGluMetArgLysTrpMetAlaGlnArgValLysSer 40
DB 368 GACTGGGAATTACGGTTACTTGGAAACAGTGAAGAAATTTATGGCCCTCAGAAATAAAGT 427
QY 41 AspArgGluTyrAlaGlyLeuLeuHisMetSerLeuGlnAspSerGlyGlnSer 60
DB 428 GATAAAGAATATGCATCTCTTTACAGAACCTTTGTAATCAAGTTGATAAGGAAGTACT 487
QY 61 ArgAlaIleSerProAspSerProIleSerGlnSerTrpAlaGluIleThrSerGlnTrp 80
DB 488 GTTCAAAATGAATATATGCAGCAATGTATCCAAAGTCTTGGCTACTTATGATTCAGCAACA 547
QY 81 GluGlyLeuSerArgLeuLeuArgGlnHisAlaGluAspLeuAsnSerGlyProLeuSer 100
DB 548 GAACAACCTTAGCAATCATGAACACACATGCAGAGCCTAAATTTCTGGACCTTACAC 607
QY 101 LysLeuSerLeuLeuIleArgGluArgGlnGlnLeuArgLysThrTyrSerGluGlnTrp 120
DB 608 AGGCTCACCATGATGATCAAGACAGCAGCAGGTGAAGAAAGTTTTATAGGTGTTCAT 667
QY 121 GlnGlnLeuGlnGlnLeuThrLysThrHisSerGlnAspIleGluLysLeuLysSer 140
DB 668 CAGCAGATAGAGGGCGGAATGATCATCAGGTTCAAAGACAGAAATTAGAGAAATTAATCC 727
QY 141 GlnTyrArgAlaLeuAlaArgAspSerAlaGlnAlaLysArgLysTyrGlnGluAla--- 159
DB 728 AGCTATAGACAGTTAATAAGAAATGATTCGCCAAAGAGAAATATAAGAGCTTTA 787
QY 160 SerLysAspLysAspArgAspLysAlaLysAspLysTyrValArgSerLeuTrpLysLeu 179
DB 788 GCTAAAGGGAAGAAACCGAAAGCCCAAGCAGATGACAAAGCGACAATGAAACTT 847
QY 180 PheAlaHisAsnArgTyrValLeuGlyValArgAlaAlaGlnLeuHisHisGlnHis 199
DB 848 CATGTATTGCATAATCATGATGATTTGGCACTGAAGGGGCACAGCTTCATCAGAAATCAG 907
QY 200 HisHisGlnLeuLeuLeuProGlyLeuArgSerLeuGlnAspLeuHisGluGluMet 219
DB 908 TATTATGACACCACACTTCCTTTCTGCTTCTGACTCTCTTCAGAAATGCAAGAAATG 967
QY 220 AlaCysIleLeuLysGluIleLeuGlnGluTyrTrpLeuGluLysSerSerLeuValGlnAsp 239
DB 968 ATAAAGCACTAAAGGTATATTGATGAAATACAGCCAGATACCCAGTCTCGTTACAGAG 1027
QY 240 GluValValAlaIleHisArgGluMetAlaAlaAlaAlaAlaArgIleGlnProGluAla 259
DB 1028 GAAATAGTGAATGCCAATAAGAGATTCAATGTCAGTTGAAACAGATAGACCCCTCAGACA 1087
QY 260 GluTyrGlnGlyPheLeuArgGlnTyrGlySerAlaProAspValProProCysValThr 279
DB 1088 GAATATAATAATTTATAGATGTTTCACAGAACACAGCGCTGCTAAAGAGCAAGAAATGAG 1147
QY 280 PheAspGluSerLeuLeuGluGluGluProLeuGluProGlyGluLeuGlnLeuAsn 299
DB 1148 TTTGATACCTCTCTTACTAGAGAAATGAAATCTTCAGGCAAAATGAAATTTATGTGGAAT 1207
QY 300 GluLeuThrValGluSerValGlnHisThrLeuThrSerValThrAspGluLeuAlaVal 319
DB 1208 AATTTAACAGCAGAAAGTTTGCAGATGATGTGAAACTTTTAGCAGAGGAATTTATACAG 1267
QY 320 AlaThrGluMetValPheArgArgGlnGluMetValThrGlnLeuGlnGlnLeuArg 339
DB 1268 ACACAGCAGATGCTTTGTAACACAGAGAGGCTGCTCTGGAGCTAGAGAGAGAAATTT--- 1324

QY 340 AsnGluGluGluAsnThrHisProArgGluArg-----ValGlnLeuLeuGly 355
DB 1325 -----GAGGAGTCTCTTAAGACCTGTGAAAGAAAGTCTGATATTTGCTCTCTGTAAGC 1378
QY 356 LysArgGlnValLeuGlnGluAlaLeuGlnGlnValAlaLeuCysSerGlnAla 375
DB 1379 CAAAACAGACACTAGAAAGAGCTGAAACAGTCAGTCAGCAGCTGAGATGCACGTAGGCA 1438
QY 376 LysLeuGlnAlaGlnGlnLeuLeuGlnThrLysLeuGluHisLeuGlyProGlyGlu 395
DB 1439 AAGTTTACAGCACAGAAAGAAATTTACTAGACAAAGAAAGTACAAAGAAATGAAGGCAAGAG 1498
QY 396 ProProValLeuLeuLeuGlnAspAspArgHisSerThrSerSerSerGluGlnGlu 415
DB 1499 CCACCTCCAGTAGTGAATTTATGAAGAGATGCAGATCAGTTACATCTATGGAAGAAAG 1558
QY 416 ArgGluGlyGlyArgThrProThrLeuGluLeuLysSerHisIleSerGlyIlePhe 435
DB 1559 GAG-----AGGCTATCCAAATTTGAGTCCATCGTCATTCATTCGTTGGAATTAAT 1609
QY 436 Arg---Prolys-----PheSer----- 440
DB 1610 AGGTCTCAAAGTCTGCACCTGGCTCTTCAACATTTCTCTGATCAGATCCCATAGTGAG 1669
QY 440 ----- 440
DB 1670 AAGCCCTTGCAGAACAGGACTGTTACACCGTGCAATTCACAGAAATAGAACCGCAAGAT 1729
QY 440 ----- 440
DB 1730 CTATTAAACACAGGAGACTTCTTGGTCCGAGAGAGTCTATGGGAAACCTGTTGAATAT 1789
QY 441 -----Asn 441
DB 1790 GTCTTTCTGTATATTCTGATGACAAAGGAGACACTTTTATCATCAATTTGTTGATAAT 1849
QY 442 LeuTyrArgLeuGluGlyGluGlyPheProSerIleProLeuLeuIleAspHisLeuLeu 461
DB 1850 CTATATCGATTGGAAGGCACTGGTTTTTCAACATTTCTCAACTTATAGATCATCACTAT 1909
QY 462 SerThrGlnGlnProLeuThrLysSerGlyValValLeuHisArgAlaValProlys 481
DB 1910 ACAACAAACAGGTCACTCAAGAGTCAGGTGTAGTTCTGCTGAATCTCTATTTCTTAAG 1969
QY 482 Asp---LysTrpValLeuAsnHisGluAspLeuValLeuGlyGluGlnIleGlyArgGly 500
DB 1970 GATAAGAAATGGTCTCTCAATCAGGAAGATGTCACATTTGGGAGAAATTTACTGGGCAAGGG 2029
QY 501 AsnPheGlyGluValPheSerGlyArgLeuArgAlaAspAsnThrLeuValAlaValLys 520
DB 2030 AATTTTGGTGAAGTATATAGGGGCATATTAAAG---GATAAAACTGCTGTTGCTGTTAAA 2086
QY 521 SerCysArgGluThrLeuProAspLeuLysAlaLysPheLeuGlnGluAlaArgIle 540
DB 2087 ACATGTAAGAGAGATCTTCTCAGGAACCTGAAATATAAATTTTACAAAGGCCAAAT 2146
QY 541 LeuLysGlnTyrSerHisProAsnIleValArgLeuIleGlyValCysThrGlnLysGln 560
DB 2147 CTCAGCAATACCATCATCCCATATTGTCAAACTTATAGCGCTTTCACACACAAAGACAG 2206
QY 561 ProIleTyrIleValMetGluLeuValGlnGlyGlyAspPheLeuThrPheLeuArgThr 580
DB 2207 CCTATCTACATCATATTGGAACCTGGTTCCAGAGGATGATTTCTGCTCTTCTGAGAAAG 2266
QY 581 GluGlyAlaArgLeuArgValLysThrLeuLeuGlnMetValGlyAspAlaAlaAlaGly 600
DB 2267 AAGAAGATGAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 2326
QY 601 MetGluTyrLeuGluSerLysCysIleHisArgAspLeuAlaAlaArgAsnCysLeu 620
DB 2327 ATGCTCTATCTCAGAGATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 2386
QY 621 ValThrGluLysAsnValLeuLysIleSerAspPheGlyMetSerArgGluGluAlaAsp 640

```

2387 GTAGTGAATAAACGTTCTCGAAATCAGTCACCTTTGGAATGCTCTGCAAGGATGGT 2446
641 GlyValTyrAlaAlaSerGlyGlyLeuArgGlnValProValLysThrAlaProGlu 660
2447 GGAGTGTATTCATCTTCT--GGCTTAAGCAGATTCCCATTAATGGACGACCCAGAA 2503
661 AlaLeuAsnTyrGlyArgTyrSerSerGluSerAspValTyrSerPheGlyLeuLeu 680
2504 GCTCTTAATTATGGGAGATACAGTTCTCAGAGCGACGTGTGAGCTTCGGCATCTCTC 2563
681 TrpGluThrPheSerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnThrArg 700
2564 TGGGAGACCTTCAGCTTAGAGTGTGCCCTTACCCCGGAATGACAAATCAGCAGCGCAG 2623
701 GluPheValGlyGlyGlyArgLeuProCysProGluLeuCysProAspAlaValPhe 720
2624 GAGCAAGTGGAAAGAGGGTACCGAATATCAGCCCCCAGCATTTGCCAGGACATTTT 2683
721 ArgLeuMetGluGlnCysTrpAlaTyrGluProGlyGlnArgProSerPheSerThrIle 740
2684 AAAATATGATGAAGTGTGGGATTATAACCTGAAACCGCCCAAGTTTCAGTGAACCT 2743
741 TyrGlnGluLeuGlnSerIleArgLysArg 750
2744 CAGAAAGAGCTCACGGTCATCAAGAGAAA 2773

RESULT 4
US-11-060-756-796
; Sequence 796, Application US/11060756
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 796
; LENGTH: 1400
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-060-756-796

Alignment Scores:
Pred. No.: 3.12e-91 Length: 1400
Score: 1654.00 Matches: 323
Percent Similarity: 82.19% Conservative: 0
Best Local Similarity: 82.19% Mismatches: 0
Query Match: 42.64% Indels: 70
DB: 19 Gaps: 1

US-10-660-763-2 (1-752) x US-11-060-756-796 (1-1400)
Qy 430 HistSerGlyIlePheArgProLysPheSer----- 440
Db 1 CACATCTCAGAAATCTTCGCCCCCAAGTTCTCGCTCCCTCCACCGCTGCAGCTCATTCGG 60
Qy 440 ----- 440
Db 61 GAGGTGCAGAACCCCTGTCATGACAGCTGTGTACCATCGGGCCATCCGAGGCGAGAG 120
Qy 440 ----- 440
Db 121 GTGGCTGAGCTGTGGTGCATCTCTGGGAGACTTCTGGTGGGAGAGCCAGGCGAAGCAG 180
Qy 440 ----- 440
Db 181 GAGTACGTGCTGCGGTGCTGTGGGANGGTCTGCCCGGCACTTCATCATCCAGTCTTG 240

```

```
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5068
; LENGTH: 1400
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-060-756-5068

Alignment Scores:
Pred. No.: 3.12e-91 Length: 1400
Score: 1654.00 Matches: 323
Percent Similarity: 82.19% Conservative: 0
Best Local Similarity: 82.19% Mismatches: 0
Query Match: 42.64% Indels: 70
DB: 19 Gaps: 1

US-10-660-763-2 (1-752) x US-11-060-756-5068 (1-1400)

Qy 430 HisIleSerGlyIlePheArgProLysPheSer----- 440
Db 1 CACATCTCAGGAATCTTTCGCGCCCAAGTTCTCGCTCCCTCCACCCTGCAGCTCATTTCCG 60
Qy 440 ----- 440
Db 61 GAGGTGCAGAAAGCCCTGCATGACAGCTGTGTGTACCATGGGGCCATCCCGAGGGCAGAG 120
Qy 440 ----- 440
Db 121 GTGGCTGAGCTGTGGTGCTCACTCTGGGACCTTCTGTGGGAGAGCCAGGGCAAGCAG 180
Qy 440 ----- 440
Db 181 GAGTACGTGCTGCGTGCTGTGGGATGGTCTGCCCGGCACATTCATCATCCAGCTCTTG 240
Qy 441 ---AsnLeuTyrArgLeuGluGlyGlyPheProSerIleProLeuLeuIleAspHis 459
Db 241 GATAACCTGTACCGACTTGGGAAGGGAGGGCTTCTAGCATTCCTTTGCTCATCGACCAC 300
Qy 460 LeuLeuSerThrGlnGlnProLeuThrLysLysSerGlyValValLeuHisArgAlaVal 479
Db 301 CTACTGAGACCCAGCAGCCCTCCACCAAGAGTGTGTGTCTGCAGGGCTGTG 360
Qy 480 ProLysAspLysTrpValLeuAsnHisGluAspLeuValLeuGlyGluGlnIleGlyArg 499
Db 361 CCCAAGGACAAGTGGGTGCTGAACCATGAGACCTGGTGTGGTGAGCAGATTGGACGG 420
Qy 500 GlyAsnPheGlyGluValPheSerGlyArgLeuArgAlaAspAenThrLeuValAlaVal 519
Db 421 GGGAACTTTGGCGAAGTGTTCAGCGGAGCGCTCGAGCGCCGACAAACACCCCTGGTGGCGGTG 480
Qy 520 LysSerCysArgGluThrLeuProProAspLeuLysAlaLysPheLeuGlnGluAlaArg 539
Db 481 AAGTCTTGTGAGAGAGCGTCCCACTGACCTCAAGGCCCAAGTTTCTACAGGAAGCGAGG 540
Qy 540 IleLeuLysGlnTyrSerHisProAsnIleValArgLeuIleGlyValCysThrGlnLys 559
Db 541 ATCTGAAGCAGTACAGCCACCCCAACATCGTGGCTCTCATTTGGTGTCTGCGCCAGAG 600
Qy 560 GlnProIleTyrIleValMetGluLeuValGlnGlyAspPheLeuThrPheLeuArg 579
Db 601 CAGCCCATCTACATCGTCATGAGCTTGTGCGAGGGGGCGACATTCCTGACCTTCTCTCCG 660
Qy 580 ThrGluGlyAlaArgLeuArgValLysThrLeuLeuGlnMetValGlyAspAlaAlaAla 599
Db 661 ACGAGAGGGGGCCCGCTCGGGGTGAAGACTCTGTGTCAGATGGTGGGGATGACGCTGCT 720
Qy 600 GlyMetGluTyrLeuGluSerLysCysCysIleHisArgAspLeuAlaAlaArgAsnCys 619
Db 721 GGCATGAGTACCTGGAGAGCAAGTGTGTGATCCACCGGACCTGGTGTCTGCGAACTGC 780
Qy 620 LeuValThrGluLysAenValLeuLysIleSerAspPheGlyMetSerArgGluGluAla 639
|-----|
```

```
Db 781 CTGGTGACAGAGAAGATGCTCCTGAAGATCAGTGACTTTGGGATGTCCCGAGAGAAGCY 840
Qy 640 AspGlyValTyrAlaAlaSerGlyGlyLeuArgGlnValProValLysTrpThrAlaPro 659
|-----|
Db 841 GATGGGTCTATGAGCCTCAGGGGGCTCAGACAAAGTCCCGTGAAGTGGACCGCACCT 900
|-----|
Qy 660 GluAlaLeuAenTyrGlyArgTyrSerSerGluSerAspValTrpSerPheGlyIleLeu 679
|-----|
Db 901 GAGGCCCTTAACCTACGGCCGCTACTCTCCGAAGACGCTGTGGAGCTTTGGCATCTTG 960
|-----|
Qy 680 LeuTrpGluThrPheSerLeuGlyAlaSerProTyrProAenLeuSerAenGlnGlnThr 699
|-----|
Db 961 CTCTGGAGACCTTACGCTGGGGGCTCCCTCTATCCCACTCAGCAATCAGCAGACA 1020
|-----|
Qy 700 ArgGluPheValGluLysGlyArgLeuProCysProGluLeuCysProAspAlaVal 719
|-----|
Db 1021 CGGGAGTTTGTGGAGAAGGGGGCGCTGCTGCCCTGCCAGAGCTGTGTCTGATGCGGTG 1080
|-----|
Qy 720 PheArgLeuMetGluGlnCysTrpAlaTyrGluProGlyGlnArgProSerPheSerThr 739
|-----|
Db 1081 TTCAGGCTCATGAGCAGTGTCTGGGCTATGAGCTGGGAGCGGCCAGCTTCAGCACC 1140
|-----|
Qy 740 IleTyrGlnGluLeuGlnSerIleArgLysArgHisArg 752
|-----|
Db 1141 ATCTACGAGGCTGCAGACATCCGAAGCGGCATCGG 1179
|-----|

RESULT 6
US-11-097-143-18926
; Sequence 18926, Application US/11097143
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: DROSOPHILA GENES.
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18926
; LENGTH: 3369
; TYPE: DNA
; ORGANISM: DROSOPHILA
US-11-097-143-18926

Alignment Scores:
Pred. No.: 1.46e-63 Length: 3369
Score: 1206.50 Matches: 290
Percent Similarity: 52.52% Conservative: 138
Best Local Similarity: 35.58% Mismatches: 300
Query Match: 31.10% Indels: 87
DB: 22 Gaps: 14

US-10-660-763-2 (1-752) x US-11-097-143-18926 (1-3369)

Qy 1 MetGlyPheSerSerGluLeuCysSerProGlnGlyHisGlyValLeuGlnMetGln 20
|-----|
```


Alignment Scores:

Pred. No.: 3,04e-55 Length: 600
Score: 1057.00 Matches: 199
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 27.25% Indels: 0
DB: 19 Gaps: 0

US-10-660-763-2 (1-752) x US-11-060-756-3333 (1-600)

Qy 554 GlyValCysThrGlnLysGlnProIleTyrIleValMetGluLeuValGlnGlyGlyAsp 573
Db 1 GGTGTCGACCCAGAGACGCCCATCTACATCGTCATGGAGCTTGTGACGGGGGGGAC 60
Qy 574 PheLeuThrPheLeuArgThrGluGlyAlaArgLeuArgValLysThrLeuLeuGlnMet 593
Db 61 TTCCTGACCTTCCTCCGACGAGGGGGCCGCTCGGGGTGAAGACTCTGCTCAGATG 120
Qy 594 ValGlyAspAlaAlaGlyMetGluTyrLeuGluSerLysCysCysIleHisArgAsp 613
Db 121 GTGGGGATGCGAGTGTGGATGACAGAGCAAGTGTCTGATCCACCCGGGAC 180
Qy 614 LeuAlaAlaArgAsnCysLeuValThrGluLysAsnValLeuLysIleSerAspPheGly 633
Db 181 CTGGCTCTCGAACTCGCTGTGTCAGAGAGAAATGTCTGAAGATCAGTGACTTTGGG 240
Qy 634 MetSerArgGluGluAlaAspGlyValTyrAlaAlaSerGlyGlyLeuArgGlnValPro 653
Db 241 ATGTCCCGAGAGGAAGTGTATGACACCTCAGGGGGCTCAGACAAAGTCCCC 300
Qy 654 ValLysTrpThrAlaProGluAlaLeuAsnTyrGlyArgTyrSerSerGluSerAspVal 673
Db 301 GTGAAGTGGACCGCACCTTAACTACCGCGGCTACTCTCCGAAAGCGAGTG 360
Qy 674 TrpSerPheGlyIleLeuLeuTrpGluThrPheSerLeuGlyAlaSerProTyrProAsn 693
Db 361 TGGAGCTTTGGCATCTTGCTCTGGGAGACCTTCAGCCTGGGGGCTCCCTATCCCAAC 420
Qy 694 LeuSerAsnGlnGlnThrArgGluPheValGluLysGlyArgLeuProCysProGlu 713
Db 421 CTCAGCAATCAGCAGACACGGAGTTTGTGAGAGGGGGGCGCTCTGCCCTGCCAGAG 480
Qy 714 LeuCysProAspAlaValPheArgLeuMetGluGlnCysTrpAlaTyrGluProGlyGln 733
Db 481 CTGTGCTCATGCGGTTCAGGCTCATGAGCAGTGTGGGCTATGAGCCTGGGCGAG 540
Qy 734 ArgProSerPheSerThrIleTyrGlnGluLeuGlnSerIleArgLysArgHisArg 752
Db 541 CGGCCAGCTTCAGACCATCTACAGAGCTGCGAGAGCATCCGAAAGCGGCATCGG 597

RESULT 11

US-11-060-756-7604
; Sequence 7604, Application US/11060756
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7604
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-060-756-7604

Alignment Scores:
Pred. No.: 3,04e-55 Length: 600
Score: 1057.00 Matches: 199

Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 27.25% Indels: 0
DB: 19 Gaps: 0

Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 27.25% Indels: 0
DB: 19 Gaps: 0

US-10-660-763-2 (1-752) x US-11-060-756-7604 (1-600)

Qy 554 GlyValCysThrGlnLysGlnProIleTyrIleValMetGluLeuValGlnGlyGlyAsp 573
Db 1 GGTGTCGACCCAGAGACGCCCATCTACATCGTCATGGAGCTTGTGACGGGGGGGAC 60
Qy 574 PheLeuThrPheLeuArgThrGluGlyAlaArgLeuArgValLysThrLeuLeuGlnMet 593
Db 61 TTCCTGACCTTCCTCCGACGAGGGGGCCGCTCGGGGTGAAGACTCTGCTCAGATG 120
Qy 594 ValGlyAspAlaAlaGlyMetGluTyrLeuGluSerLysCysCysIleHisArgAsp 613
Db 121 GTGGGGATGCGAGTGTGGATGACAGAGCAAGTGTCTGATCCACCCGGGAC 180
Qy 614 LeuAlaAlaArgAsnCysLeuValThrGluLysAsnValLeuLysIleSerAspPheGly 633
Db 181 CTGGCTCTCGAACTCGCTGTGTCAGAGAGAAATGTCTGAAGATCAGTGACTTTGGG 240
Qy 634 MetSerArgGluGluAlaAspGlyValTyrAlaAlaSerGlyGlyLeuArgGlnValPro 653
Db 241 ATGTCCCGAGAGGAAGTGTATGACACCTCAGGGGGCTCAGACAAAGTCCCC 300
Qy 654 ValLysTrpThrAlaProGluAlaLeuAsnTyrGlyArgTyrSerSerGluSerAspVal 673
Db 301 GTGAAGTGGACCGCACCTTAACTACCGCGGCTACTCTCCGAAAGCGAGTG 360
Qy 674 TrpSerPheGlyIleLeuLeuTrpGluThrPheSerLeuGlyAlaSerProTyrProAsn 693
Db 361 TGGAGCTTTGGCATCTTGCTCTGGGAGACCTTCAGCCTGGGGGCTCCCTATCCCAAC 420
Qy 694 LeuSerAsnGlnGlnThrArgGluPheValGluLysGlyArgLeuProCysProGlu 713
Db 421 CTCAGCAATCAGCAGACACGGAGTTTGTGAGAGGGGGGCGCTCTGCCCTGCCAGAG 480
Qy 714 LeuCysProAspAlaValPheArgLeuMetGluGlnCysTrpAlaTyrGluProGlyGln 733
Db 481 CTGTGCTCATGCGGTTCAGGCTCATGAGCAGTGTGGGCTATGAGCCTGGGCGAG 540
Qy 734 ArgProSerPheSerThrIleTyrGlnGluLeuGlnSerIleArgLysArgHisArg 752
Db 541 CGGCCAGCTTCAGACCATCTACAGAGCTGCGAGAGCATCCGAAAGCGGCATCGG 597

RESULT 12

US-11-060-756-7605
; Sequence 7605, Application US/11060756
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7605
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-060-756-7605

Alignment Scores:
Pred. No.: 3,04e-55 Length: 600
Score: 1057.00 Matches: 199
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 27.25% Indels: 0
DB: 19 Gaps: 0

```
US-10-660-763-2 (1-752) x US-11-060-756-7605 (1-600)
QY 554 GlyValCysThrGlnLysGlnProIleTyrIleValMetGluLeuValGlnGlyGlyAsp 573
Db 1 GGTGTCTGCACCCAGAGCAGCCCATCTACATCGTCATGAGCTTGTGCAGGGGGCGAC 60
QY 574 PheLeuThrPheLeuArgThrGluGlyAlaArgLeuArgValLysThrLeuLeuGlnMet 593
Db 61 TTCTGTACCTTCTCTCCGACGAGAGGGGCCCGCTGCGGGTGAAGACTCTGCTGCAGATG 120
QY 594 ValGlyAspAlaAlaGlyMetGluTyrLeuGluSerLysCysCysIleHisArgAsp 613
Db 121 GTGGGGATGCAGCTGCTGCATGGAGTACTCTGGAGAGCAAGTGTCTCATCCACCGGAC 180
QY 614 LeuAlaAlaArgAsnCysLeuValThrGluLysAsnValLeuLysIleSerAspPheGly 633
Db 181 CTGGCTCTCGGAACCTCCCTGGTGACAGAGAAGATGCTCCTGAAGATCAGTGACTTTGGG 240
QY 634 MetSerArgGluGluAlaAspGlyValTyrAlaAlaSerGlyGlyLeuArgGlnValPro 653
Db 241 ATGTCCCGAGAGGAGCTGATGGGTCTATGCAGCCTCAGGGGGCTCAGACAAAGTCCCC 300
QY 654 ValLysTrpThrAlaProGluAlaLeuAsnTyrGlyArgTyrSerSerGluSerAspVal 673
Db 301 GTGAAGTGGACCGCACCTGAGGCCCTTAACCTACGGCCGCTACTCTCCGAAAGCGAGCTG 360
QY 674 TrpSerPheGlyIleLeuLeuTrpGluThrPheSerLeuGlyAlaSerProTyrProAsn 693
Db 361 TGGAGCTTTGGCATCTTGTCTCTGGAGACCTTACAGCTGGGGGCTCCCTCATATCCCAAC 420
QY 694 LeuSerAsnGlnGlnThrArgGluPheValGluLysGlyGlyArgLeuProCysProGlu 713
Db 421 CTAGCAATCAGCAGACACGGGAGTTTGTGGAGAGGGGGCGCTGTGCCCTGCCCAGAG 480
QY 714 LeuCysProAspAlaValPheArgLeuMetGluGlnCysTrpAlaTyrGluProGlyGln 733
Db 481 CTGTGTCTCATGCGGTTCAGGCTCATGGAGCAGTGTCTGGGCTATGAGCCTGGGCGAG 540
QY 734 ArgProSerPheSerThrIleTyrGlnGluLeuGlnSerIleArgLysArgHisArg 752
Db 541 CGGCCCCAGCTTCAGCACCATCTACAGAGCTGCAGAGCATCCGAAAGCGGCATCGG 597

RESULT 13
US-60-680-544-39317
; Sequence 39317, Application US/60680544
; GENERAL INFORMATION:
; APPLICANT: Cooper, Matthew
; APPLICANT: Kinch, Deborah
; APPLICANT: Rosenberg, Michael
; APPLICANT: Subramaniam, S. Sai
; APPLICANT: Szak, Suzanne
; APPLICANT: Li, Huo
; APPLICANT: Bandaru, Raj
; APPLICANT: Derbel, Maher
; TITLE OF INVENTION: Nucleotide Array Containing Polynucleotide Probes Complementary
; FILE REFERENCE: 2159029000
; CURRENT APPLICATION NUMBER: US/60/680,544
; CURRENT FILING DATE: 2005-05-13
; NUMBER OF SEQ ID NOS: 48714
; SOFTWARE: Patent Sequence Analysis Tool Version 1.0
; SEQ ID NO 39317
; LENGTH: 638
; TYPE: DNA
; ORGANISM: Macaca Mulatta
US-60-680-544-39317
Alignment Scores: 8.88e-53 Length: 638
Pred. No.: 1017.00 Matches: 196
Score: 99.50%
Percent Similarity: 99.50%
Best Local Similarity: 98.00% Mismatches: 3
Mismatches: 1
```

```
Query Match: 26.22% Indels: 0
DB: 23 Gaps: 0
US-10-660-763-2 (1-752) x US-60-680-544-39317 (1-638)
QY 1 MetGlyPheSerSerGluLeuCysSerProGlnGlyHisGlyValLeuGlnMetGln 20
Db 39 ATGGGCTTCTCTTCGAGCTGTGCACCCCGGCGCCAGCGGGTCTCTGCAGCAGATGCGAG 98
QY 21 GluAlaGluLeuArgLeuLeuGluGlyMetArgLysTrpMetAlaGlnArgValLysSer 40
Db 99 GAGGCTGAGCTTCTGTCTACTGTGAGGGCATGAGAAAGTGGATGGCCCAACGGGTCAAGAGT 158
QY 41 AspArgGluTyrAlaGlyLeuLeuHisMetSerLeuGlnAspSerGlyGlyGlnSer 60
Db 159 GACAGGGAGTATGACGAGACTGCTTCAACCATGTTCGTGCAGACAGCATGCGGGCCAGAGC 218
QY 61 ArgAlaIleSerProAspSerProIleSerGlnSerTrpAlaGluIleThrSerGlnThr 80
Db 219 CGGGGCATCAGCCCTGACAGCCCATCAGCAGTCTCTGGCGGAGATCTGAACCTCAGGGCCCAACT 278
QY 81 GluGlyLeuSerArgLeuLeuArgGlnHisAlaGluAspLeuAsnSerGlyProLeuSer 100
Db 279 GAGGGCCTGAGCGGTGTCTGGCGCAGCACCGCGGAGATCTGAACCTCAGGGCCCTTGAGC 338
QY 101 LysLeuSerLeuLeuIleArgGluArgGlnGlnLeuArgLysThrTyrSerGluGlnTrp 120
Db 339 AAGTTGAGCTCTCTCATCCGGGACCGCAGCAGCTTCGCAAGACCTACAGCGAGCAGTGG 398
QY 121 GlnGlnLeuGlnGlnLeuThrLysThrHisSerGlnAspIleGluLysLeuLysSer 140
Db 399 CAGCAGCTCAGCAGGAGCTCACCAGACTCAGCAGCAGCAGCATTTGAGAAGCTGAAGAGC 458
QY 141 GlnTyrArgAlaLeuAlaArgSerAlaGlnAlaLysArgLysTyrGlnGluAlaSer 160
Db 459 CAGTACCGAGCCCTTGGCAGCGGACAGTCCCAAGCCCAAGCCCAAGTACCGAGGAGCCAGC 518
QY 161 LysAspLysAspArgAspLysAlaLysAspLysTyrValArgSerLeuTrpLysLeuPhe 180
Db 519 AAAGCAAGAGCGCTGACAAAGCCAAAGGACAAAGTATGTGCGCAGCCTGTGGAAGCTCTTT 578
QY 181 AlaHisHisAsnArgTyrValLeuGlyValArgAlaAlaGlnLeuHisGlnHis 200
Db 579 GCTCACCAACCGCTATGTCTGGGCGTGTGGGCTGCAGCTACACTACCAGACCAC 638

RESULT 14
US-60-680-473-39317
; Sequence 39317, Application US/60680473
; GENERAL INFORMATION:
; APPLICANT: Cooper, Matthew
; APPLICANT: Kinch, Deborah
; APPLICANT: Rosenberg, Michael
; APPLICANT: Subramaniam, S. Sai
; APPLICANT: Szak, Suzanne
; APPLICANT: Li, Huo
; APPLICANT: Bandaru, Raj
; APPLICANT: Derbel, Maher
; TITLE OF INVENTION: Nucleotide Array Containing Polynucleotide Probes Complementary
; FILE REFERENCE: 2159029000
; CURRENT APPLICATION NUMBER: US/60/680,473
; CURRENT FILING DATE: 2005-05-13
; NUMBER OF SEQ ID NOS: 48714
; SOFTWARE: Patent Sequence Analysis Tool Version 1.0
; SEQ ID NO 39317
; LENGTH: 638
; TYPE: DNA
; ORGANISM: Macaca Mulatta
US-60-680-473-39317
Alignment Scores: 8.88e-53 Length: 638
Pred. No.: 1017.00 Matches: 196
Score: 99.50%
Percent Similarity: 99.50%
Best Local Similarity: 98.00% Mismatches: 3
Mismatches: 1
```


Percent Similarity: 99.50% Conservative: 3
 Best Local Similarity: 98.00% Mismatches: 1
 Query Match: 26.22% Indels: 0
 DB: 23 Gaps: 0

US-10-660-763-2 (1-752) x US-60-680-473-39317 (1-638)

Qy 1 MetGlyPheSerGluLeuCySerProGlnGlyHisGlyValLeuGlnGlnMetGln 20
 Db 39 ATGGGCTTCTTCGGAGCTGTGACCCGCCCGCCAGGGCTCCTGCAGCAGATGAG 98
 Qy 21 GluAlaGluLeuArgLeuGluGlyMetArgLysTrpMetAlaGlnArgValLysSer 40
 Db 99 GAGGCTGAGCTTCTGCTACTGAGGGGATGAGAAGTGGATGGCCCAACGGGTCAAGAGT 158
 Qy 41 AspArgGluTyrAlaGlyLeuLeuHisHisMetSerLeuGlnAspSerGlyGlyGlnSer 60
 Db 159 GACAGGGAGTATGACAGACTGCTTCCACCATGTCCTGCGAGGACAGTGGGGGCCAGGC 218
 Qy 61 ArgAlaIleSerProAspSerProIleSerGlnSerTrpAlaGluIleThrSerGlnThr 80
 Db 219 CGGGGCTATGAGCTGACAGCCCATCAGCCAGTCTCTGGCGGAGATCACCAGCCAAACT 278
 Qy 81 GluGlyLeuSerArgLeuLeuArgGlnHisAlaGluAspLeuAsnSerGlyProLeuSer 100
 Db 279 GAGGGCTGAGCCGGTGTCTGCGGAGCAGCCGCGAGGATCTGAACCTCAGGGCCCTGAGC 338
 Qy 101 LysLeuSerLeuLeuIleArgGluArgGlnGlnLeuArgLysThrTyrSerGluGlnTrp 120
 Db 339 AAGTTGAGCTGCTCTATCCGGGAACGGCAGCAGCTTCGACAGACTCAGGAGCAGTGG 398
 Qy 121 GlnGlnLeuGlnGlnLeuThrLysThrHisSerGlnAspIleGluLysLeuLysSer 140
 Db 399 CAGCAGCTGACAGGAGCTCACCAGACTCACAGCCAGGACATTGAGAAGCTGAAGAGC 458
 Qy 141 GlnTyrArgAlaLeuAlaArgAspSerAlaGlnAlaLysArgLysThrGlnGlnAlaSer 160
 Db 459 CAGTACCAGCCCTGGCAGCGGAGCAGTGCCCAAGCCAAAGCGCAAGTACAGGAGGCCAGC 518
 Qy 161 LysAspLysAspArgAspLysAlaLysAspLysTyrValArgSerLeuTrpLysLeuPhe 180
 Db 519 AAGACAAAGACCCGTGACAGCCCAAGCCCAAGTATGTGCGCAGCTGTGGAAGCTCTTT 578
 Qy 181 AlaHisHisAsnArgTyrValLeuGlyValArgAlaAlaGlnLeuHisHisGlnHis 200
 Db 579 GCTCACCAACCCGTATGTGCTGGCGTGGCGCTGCAGACTACACTACCAACCCAC 638

RESULT 15

US-11-097-143-24845
 ; Sequence 24845, Application US/11097143
 ; GENERAL INFORMATION:
 ; APPLICANT: Venter, J. Craig
 ; APPLICANT: et al.
 ; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
 ; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
 ; TITLE OF INVENTION: DROSOPHILA GENES.
 ; FILE REFERENCE: CL000728
 ; CURRENT APPLICATION NUMBER: US/11/097,143
 ; CURRENT FILING DATE: 2005-04-04
 ; PRIOR APPLICATION NUMBER: 60/157,832
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: 60/160,191
 ; PRIOR FILING DATE: 1999-10-19
 ; PRIOR APPLICATION NUMBER: 60/161,932
 ; PRIOR FILING DATE: 1999-10-28
 ; PRIOR APPLICATION NUMBER: 60/164,769
 ; PRIOR FILING DATE: 1999-11-12
 ; PRIOR APPLICATION NUMBER: 60/173,383
 ; PRIOR FILING DATE: 1999-12-28
 ; PRIOR APPLICATION NUMBER: 60/175,693
 ; PRIOR FILING DATE: 2000-01-12
 ; PRIOR APPLICATION NUMBER: 60/184,831
 ; PRIOR FILING DATE: 2000-02-24

; PRIOR APPLICATION NUMBER: 60/191,637
 ; PRIOR FILING DATE: 2000-03-23
 ; NUMBER OF SEQ ID NOS: 43008
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 24845
 ; LENGTH: 3198
 ; TYPE: DNA
 ; ORGANISM: DROSOPHILA
 ; US-11-097-143-24845

Alignment Scores:

Pred. No.: 8,5e-52 Length: 3198
 Score: 1013.00 Matches: 257
 Percent Similarity: 42.44% Conservative: 108
 Best Local Similarity: 29.88% Mismatches: 245
 Query Match: 26.11% Indels: 250
 DB: 22 Gaps: 13

US-10-660-763-2 (1-752) x US-11-097-143-24845 (1-3198)

Qy 122 GlnLeuGlnGlnGluLeuThrLysThrHisSerGlnAspIleGluLysLeuLysSerGln 141
 Db 1 CAGCTCACCGCAGCGGTGGTGGCAAGAAATCT--GAATACCAAAAACATTTGGAGGCG 57
 Qy 142 TyrArgAlaLeuAlaArgAspSerAlaGlnAlaLysArgLysTyrGlnGlnAlaSerLys 161
 Db 58 TACAAGCGCTG-----CGCAGCGCTTCGAGGAGAACTACATAAAGGCACCCAGT 108
 Qy 162 AspLysAspArg-----AspLysAlaLysAspLysTyrValArgSerLeuTrpLysLeu 179
 Db 109 CGCAGTGGCCGCAAGCTGGACGATGTCGTGCAAGTATCAGAAGGCTTCGCCCAATTTG 168
 Qy 180 PheAlaHisHisAsnArgTyrValLeuGlyValArgAlaAlaGlnLeuHisHisGlnHis 199
 Db 169 CATCTCACACACACGAGTAGTGTCTCCATCAGCGAAGCCATCGAAGTGGAGAGGAC 228
 Qy 200 HisHisGlnLeuLeuProGlyLeuLeuArgSerLeuGlnAspLeuHisGluGluMet 219
 Db 229 TTTCCGCAACTCTTGTGTCGGGACTCTGCGAGCATCAGCAGTCCGTTCAGGAGAGTTC 288
 Qy 220 AlaCysIleLeuLysGluIleLeuGlnGluTyrLeuGluIleSerSerLeuValGluAsp 239
 Db 289 ATCTGTGTGGCGCAACATCTCTGAGGAGCGGCCCGCATGTGGCGACCTCACGGCCGAC 348
 Qy 240 GluValValAlaIleHisArgGluMetAlaAlaAlaAlaArgIleGlnProGluAla 259
 Db 349 AAGTACAGAGATCCAGAAGCGCATTGACACTGTGATAGGAGCATCAATCCGACCGAG 408
 Qy 260 GluTyrGlnGlyPheLeuArgGlnTyrGlySerAlaProAspValProProCysValThr 279
 Db 409 GAGTACGGCGAGTTTCCCGAGAAATACAAAACCTCTCCCAACACCGCTCTCTCCAG 468
 Qy 280 PheAspGluSerLeuLeuGluGlyGluProLeuGluProGlyGluLeuGlnLeuAsn 299
 Db 469 TTCGATGAGACGCTCATCCAGGAT-----ATCCCGCAAAATTCGATCGCAGC 516
 Qy 300 GluLeuThrValGluSerValGlnHisThrLeuThrSerValThrAspGluLeuAlaVal 319
 Db 517 ACATTGACAGTGGACAACTC-----ACGGTGGAGTGGCTGGTATCTCTCCAGAA 570
 Qy 320 AlaThrGluMetValPheArgArgGlnGluMetValThrGlnLeuGlnGlnLeuArg 339
 Db 571 CTGGAGGAGCCGCTCAGGGATTGCCAGAGAAG-----CAGATGAAGATGATC 618
 Qy 340 AsnGluGluGlnAsnThrHisProArgGluArgValGlnLeuLeuGlyLysArgGlnVal 359
 Db 619 GAGCATGTGAATGGTGGCTCGCCGGTGGCCAATGGCAGCATTTATATCCACGGCAGCAAC 678
 Qy 360 LeuGlnGlnAlaLeuGlnGlyLeuGlnValAlaLeuCysSerGlnAlaLys----- 376
 Db 679 ACATCCACGGCAATTCAGTCCAAAGGATAGCGCTATGCCGCCAGTCGAGGACCTTAAT 738
 Qy 377 ---LeuGlnAlaGlnGln-----GluLeuLeuGlnThrLysLeu 388

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: August 10, 2005, 09:00:04 ; Search time 1599 Seconds
(without alignments)
3048.598 Million cell updates/sec

Title: US-10-660-763-2
Perfect score: 3879
Sequence: 1 MGSSELCSQGHVLLQMQ.....QRPSFTIYQELQIRKRRH 752

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 7297361 seqs, 3241162794 residues

Total number of hits satisfying chosen parameters: 14594722

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame+ p2n.model -DEV=xlp
-Q=/cgn2_1/USPTO.spool_p/US10660763/runat_03082005_182825_28680/app.query.fasta_1.903
-DB=Published Applications NA -QFMT=fastap -SURFIX=rpnp -MINMATCH=0.1
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blomsum62
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=2000000000 -US=US10660763 @CGN.1.1.723 @runat_03082005_182825_28680
-NCPU=6 -ICPU=1 -NO_MMAP -LARGESUBSTR -NEG SCORES=0 -WAIT -DSPBLOCK=100
-LONGLOG -DEV TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications NA:
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq.*
6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq.*
7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq.*
8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq.*
13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq.*
19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq.*
20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq.*
21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq.*
22: /cgn2_6/ptodata/1/pubpna/US10J_PUBCOMB.seq.*
23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq.*
24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*
25: /cgn2_6/ptodata/1/pubpna/US16_NEW_PUB.seq.*
26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3879	100.0	2674	13 US-10-003-295-1	Sequence 1, Appli
2	3879	100.0	2674	18 US-10-660-763-1	Sequence 1, Appli
3	3821	98.5	2889	16 US-10-240-965-256	Sequence 256, App
4	2137	55.1	15297	13 US-10-003-295-3	Sequence 3, Appli
5	2137	55.1	15297	18 US-10-660-763-3	Sequence 3, Appli
6	1853	47.8	2950	21 US-10-887-553A-240	Sequence 240, App
7	892	23.0	1779	18 US-10-280-576-19	Sequence 19, Appl
8	663	17.1	449	10 US-09-918-995-1503	Sequence 1503, Ap
9	624.5	16.1	3840	16 US-10-204-041-3	Sequence 3, Appli
10	624.5	16.1	3840	19 US-10-717-597-234	Sequence 234, App
11	624.5	16.1	3840	19 US-10-802-432-26	Sequence 26, Appl
12	624.5	16.1	5434	17 US-10-170-385-182	Sequence 182, App
13	624.5	16.1	5744	17 US-10-439-703-5	Sequence 5, Appli
14	623	16.1	3450	17 US-10-457-954-5	Sequence 5, Appli
15	622	16.0	3393	16 US-10-263-480-1	Sequence 1, Appli
16	622	16.0	5527	9 US-09-880-107-3710	Sequence 3710, Ap
17	620.5	16.0	3653	17 US-10-258-666-7	Sequence 7, Appli
18	620.5	16.0	4705	16 US-10-312-918-1	Sequence 1, Appli
19	620.5	16.0	4786	16 US-10-312-918-3	Sequence 3, Appli
20	608	15.7	1518	18 US-10-280-576-24	Sequence 24, Appl
21	607.5	15.7	1713	9 US-09-741-154-1	Sequence 1, Appli
22	607.5	15.7	1713	16 US-10-187-900-1	Sequence 1, Appli
23	605.5	15.6	1933	21 US-10-895-225A-10	Sequence 10, Appl
24	605.5	15.6	2000	9 US-09-977-260-1	Sequence 1, Appli
25	605.5	15.6	2000	10 US-09-977-261-1	Sequence 1, Appli
26	605.5	15.6	2104	21 US-10-895-225A-9	Sequence 9, Appli
27	605.5	15.6	2183	21 US-10-895-225A-11	Sequence 11, Appl
28	603.5	15.6	3645	18 US-10-280-576-10	Sequence 10, Appl
29	598	15.4	1995	16 US-10-378-393-6	Sequence 6, Appli
30	598	15.4	2574	9 US-09-735-103-2	Sequence 2, Appli
31	598	15.4	2574	13 US-10-045-428A-2	Sequence 2, Appli
32	598	15.4	2604	17 US-10-171-581-317	Sequence 317, App
33	598	15.4	2604	17 US-10-353-690-33	Sequence 33, Appl
34	598	15.4	8858	16 US-10-378-393-1	Sequence 1, Appli
35	597	15.4	3650	17 US-10-369-022-59	Sequence 59, Appl
36	597	15.4	3650	17 US-10-366-288-17	Sequence 17, Appl
37	597	15.4	3650	21 US-10-497-692-1	Sequence 1, Appli
38	596.5	15.4	3663	9 US-09-919-172-84	Sequence 84, Appl
39	596.5	15.4	3663	20 US-10-752-986-84	Sequence 84, Appl
40	592.5	15.3	3593	15 US-10-220-801-6	Sequence 6, Appli
41	591	15.2	2449	15 US-10-220-801-11	Sequence 11, Appl
42	591	15.2	2456	13 US-10-186-399-1	Sequence 1, Appli
43	591	15.2	2456	16 US-10-021-660-41	Sequence 41, Appl
44	591	15.2	2456	17 US-10-305-720-1476	Sequence 1476, Ap
45	591	15.2	2456	18 US-10-211-462-128	Sequence 128, App

ALIGNMENTS

RESULT 1
US-10-003-295-1
; Sequence 1, Application US/10003295
; Publication No. US20020168741A1
; GENERAL INFORMATION:
; APPLICANT: GAN, Weinliu et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; THEREOF
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CLO01183DIV
; CURRENT APPLICATION NUMBER: US/10/003,295
; CURRENT FILING DATE: 2001-12-06
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2674

TYPE: DNA
ORGANISM: Homo sapiens
US-10-003-295-1

Alignment Scores:

Pred. No.: 0 Length: 2674
Score: 3879.00 Matches: 752
Percent Similarity: 100.00% Conservativity: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 13 Gaps: 0

US-10-660-763-2 (1-752) x US-10-003-295-1 (1-2674)

QY 1 MetGlyPheSerSerGluLeuCysSerProGlnGlyHisGlyValLeuGlnMetGln 20
DB 72 ATGGGCTTCTCTTCTGAGCTGTGCAGCCCCCAGGGCCACGGGGTCTCGAGCAAAATGCAG 131
QY 21 GluAlaGluLeuArgLeuLeuGluGlyMetArgLysTrpMetAlaGlnArgValLysSer 40
DB 132 GAGCCGAGCTTCTCTACTGGAGGGCATGAGAAAGTGGATGGCCAGCGGGTCAAGAGT 191
QY 41 AspArgGluTyrAlaGlyLeuLeuHisHisMetSerLeuGlnAspSerGlyGlnSer 60
DB 192 GACAGGGAGTATGCAGGACTGCTTACCACATGTCTGTCAGGACAGTGGGGCCAGAGC 251
QY 61 ArgAlaIleSerProAspSerProIleSerGlnSerTrpAlaGluIleThrSerGlnThr 80
DB 252 CGGGCCATCATCGCCCTGACAGCCCATCAGTCACTCTGGGCTGAGATCACAGCCAAACT 311
QY 81 GluGlyLeuSerArgLeuLeuArgGlnHisAlaGluAspLeuAsnSerGlyProLeuSer 100
DB 312 GAGGGCTGAGCGCTTGTCTGGCGCAGCAGCAGAGGATCTGAACCTCAGGGCCCTGAGC 371
QY 101 LysLeuSerLeuLeuLeuArgGluArgGlnGlnLeuArgLysThrTyrSerGluGlnTrp 120
DB 372 AAGCTGAGCCTGCTCATCCCGGAACCGCAGCAGCTTCGCAAGACCTACAGCGAGCAGTGG 431
QY 121 GlnGlnLeuGlnGlnLeuThrLysThrHisSerGlnAspIleGluLysLeuLysSer 140
DB 432 CAGCAGCTGAGCAGGAGCTCAACAAGACCACAGCCAGCAGGACATTCAGAAAGCTGAAGAGC 491
QY 141 GlnTyrArgAlaLeuAlaArgAspSerAlaGlnAlaLysArgLysTyrGlnGluAlaSer 160
DB 492 CAGTACCAGCTCTGGCACCGGACAGTGCCTCAAGCCAAAGCGCAAGTACCAGAGGCGCAGC 551
QY 161 LysAspLysAspArgAspLysAlaLysAspLysTyrValArgSerLeuTrpLysLeuPhe 180
DB 552 AAAGACAAGGACCGTGACAAGGCCAAGGACAAGTATGTGGCGAGCCTGTGGAAAGCTCTTT 611
QY 181 AlaHisHisAsnArgTyrValLeuGlyValArgAlaAlaGlnLeuHisHisGlnHis 200
DB 612 GCTCACCAACCGCTATGTCTGGGGCTGGGGCTGGCGAGCTACACACAGCAGCACCAC 671
QY 201 HisGlnLeuLeuLeuProGlyLeuLeuArgSerLeuGlnAspLeuHisGluGluMetAla 220
DB 672 CACCAGCTCTGCTGTCGCGCCCTGCTCGCTGCTCACTGCAGGACCTGCACAGGAGATGGCT 731
QY 221 CysIleLeuLysGluIleLeuGlnGlnLysLeuGluIleSerSerLeuValGlnAspGlu 240
DB 732 TGCATCTCGAAGGAGATCTCTGCAAGGAATACCTGGAGATTAGCAGCCTGGTGGAGGATGAG 791
QY 241 ValValAlaIleHisArgGluMetAlaAlaAlaAlaArgIleGlnProGluAlaGlu 260
DB 792 GTGGTGGCCATTACCCGGGAGATGGCTGCACTGCTGCCCGCATCCAGCCTGAGGCTGAG 851
QY 261 TyrGlnGlyPheLeuArgGlnTyrGlySerAlaProAspValProProCysValThrPhe 280
DB 852 TACCAGGCTTCTCGCACAGTATGGGTCCGCACCTGACCTCCACCCCTGTGTCAAGTTC 911
QY 281 AspGluSerLeuLeuGluGlyGluProLeuGluProGlyGluLeuGlnLeuAsnGlu 300
DB 912 GATGAGTCACTGCTTGAGGAGGGTGAACCCGCTGGAGCTGGGAGCTCCAGCTGAACGAG 971

QY 301 LeuThrValGluSerValGlnHisThrLeuThrSerValThrAspGluLeuAlaValAla 320
DB 972 CTGACTGTGGAGAGCGTGCAGCACACGCTGACCTCAGTGCAGATGAGCTGGCTGTGGCC 1031
QY 321 ThrGluMetValPheArgGlnGluMetValThrGlnLeuGlnGlnLeuArgAsn 340
DB 1032 ACCGAGATGGTGTTCAGGGCGGCGAGAGATGGTTACGACGTGCAACAGAGAGCTCCGGAAT 1091
QY 341 GluGluGluAsnThrHisProArgGluArgValGlnLeuLeuGlyLysArgGlnValLeu 360
DB 1092 GAAGAGAGAAACACCCACCCCGGAGCGGGTGCAGCTGCTGGGCAAGAGGCAAGTGTCTG 1151
QY 361 GlnGluAlaLeuGlnGlnLeuGlnValAlaLeuCysSerGlnAlaLysLeuGlnAlaGln 380
DB 1152 CAAGAAGCACTGCAGGGGCTGCAGGTAGCGCTGTGCAGCCAGCCCAAGCTGCAGGCCAG 1211
QY 381 GlnGluLeuLeuGlnThrLysLeuGluHisLeuGlyProGlyGluProProValLeu 400
DB 1212 CAGGAGTTGCTGCAGACCAAGCTGCAGCACTTCGGGCCCGCGGAGCCCGCTGTGCTG 1271
QY 401 LeuLeuGlnAspAspArgHisSerThrSerSerSerGlnGlnGluArgGluGlyArg 420
DB 1272 CTCCTGCAGGATGCAGCCCACTCCACGTCGTCTCGGAGCAGAGCGAGGGGGAAGG 1331
QY 421 ThrProThrLeuGluIleLeuLysSerHisIleSerGlyIlePheArgProLysPheSer 440
DB 1332 ACACCCACGCTGGAGATCTTAAAGAGCCACATCTCAGGNACTCTTCGCCCCCAAGTCTCG 1391
QY 441 AsnLeuTyrArgLeuGluGlyGluGlyPheProSerIleProLeuLeuIleAspHisLeu 460
DB 1392 AACCTGTACCGACTGGAAGGGGAAGGCTTCTCAGCATTCCTTTGCTCATCAGCACCTTA 1451
QY 461 LeuSerThrGlnGlnProLeuThrLysLysSerGlyValValLeuHisArgAlaValPro 480
DB 1452 CTGAGCACCCAGCAGCCCTCACCAAGAAGAGTGGTGTGCTGCACAGGGCTGTGCC 1511
QY 481 LysAspLysTrpValLeuAsnHisGluAspLeuValLeuGlyGluGlnIleGlyArgGly 500
DB 1512 AAGGACAGTGGTGTCTGAACCATTCAGGACCTGGTGTGGTGAGCAGATTGGACGGGG 1571
QY 501 AsnPheGlyGluValPheSerGlyArgLeuArgAlaAspAsnThrLeuValAlaValLys 520
DB 1572 AACTTTGGCGAAGTGTTCAGCGAGCCCTGCAGCGCCGCAACACCTGTGGTGGCGTGAAG 1631
QY 521 SerCysArgGluThrLeuProProAspLeuLysAlaLysPheLeuGlnGluAlaArgIle 540
DB 1632 TCTTGTGAGAGACGCTCCACCTGACCTCAAGGCCNAGTTTCTACAGGAAGCGAGGATC 1691
QY 541 LeuLysGlnTyrSerHisProAsnIleValArgLeuIleGlyValCysThrGlnLysGln 560
DB 1692 CTGAAGCAGTACAGCCACCCCAACATCGTGTCTCTCATTTGGTGTCTGCACCCAGAGCAG 1751
QY 561 ProIleTyrIleValMetGluLeuValGlnGlyGlyAspPheLeuThrPheLeuArgThr 580
DB 1752 CCCATCTACATCGTCATGGAGCTTGTGCAGGGGGCGGACTTCTCGACCTTCTCCCGCAGC 1811
QY 581 GluGlyAlaArgLeuArgValLysThrLeuLeuGlnMetValGlyAspAlaAlaGly 600
DB 1812 GAGGGGGCCCGCTCGCGGTGAAGACTCTGCTGCAGATGCTGGGGATGCAGCTGTGGC 1871
QY 601 MetGluTyrLeuGluSerLysCysIleHisArgAspLeuAlaAlaArgAsnCysLeu 620
DB 1872 ATGGAGTACTGGAGAGCAAGTGTGCTCATCCACCGGGACCTGGCTGCTCGGAACCTCGCTG 1931
QY 621 ValThrGluLysAsnValLeuLysIleSerAspPheGlyMetSerArgGluGluAlaAsp 640
DB 1932 GTGACAGAGAAGATGCTCTGAAGATCAGTACTTTGGGATGTCCCGAGAGGAGCCGAT 1991
QY 641 GlyValTyrAlaAlaSerGlyGlyLeuArgGlnValProValLysTrpThrAlaProGlu 660
DB 1992 GGGGTCTATGCAGCCTCAGGGGGCCTCAGCAAGTCCCCCGTGAAGTGGACCGCACCTGAG 2051

```
Qy 661 AlaLeuAenTyrGlyArgTyrSerSerGluSerAspValTTPSerPheGlyIleLeuLeu 680
Db 2052 GCCCTTAACATACGCCCGCTACTCTCCGAAAGACAGCTGTGGAGCTTTGGCATCTTGCCTC 2111
Qy 681 TrpGluThrPheSerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnGlnThrArg 700
Db 2112 TGGGAGACCTTCAGCCTGGGGGCTCCCTCTATCCCAACCTCAGCAATCAGCAGACACGG 2171
Qy 701 GluPheValGluLysGlyArgLeuProCysProGluLeuCysProAspAlaValPhe 720
Db 2172 GAGTTTGTGGAGAGGGGGCGCTGCTGCTGCCAGAGCTGTCTCTGATGCCGTGTC 2231
Qy 721 ArgLeuMetGluGlnCysTTPAlaTyrGluProGlyGlnArgProSerPheSerThrIle 740
Db 2232 AGGCTCATGGAGCAGTCTGGGCTATAGAGCTGGGAGCGGCCAGCTTCAGCACCATC 2291
Qy 741 TyrGlnGluLeuGlnSerIleArgLysArgHisArg 752
Db 2292 TACCAGGAGCTGCAGAGCATCCGAAAGGGGATCGG 2327

RESULT 2
US-10-660-763-1
; Sequence 1, Application US/10660763
; Publication No. US20040063130A1
; GENERAL INFORMATION:
; APPLICANT: GAN, Weiniu et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001183DIVII
; CURRENT APPLICATION NUMBER: US/10/660,763
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2674
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-660-763-1

Alignment Scores:
Pred. No.: 0 Length: 2674
Score: 3879.00 Matches: 752
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 18 Gaps: 0

US-10-660-763-2 (1-752) x US-10-660-763-1 (1-2674)
Qy 1 MetGlyPheSerSerGluLeuCysSerProGlnGlyHisGlyValLeuGlnGlnMetGln 20
Db 72 ATGGGCTTCTCTTCTGAGCTGTGCAGCCCCCAGGGCCACGGGGTCTTGCAGCAATGTCAG 131
Qy 21 GluAlaGluLeuArgLeuLeuGluGlyMetArgLysTrpMetAlaGlnArgValLysSer 40
Db 132 GAGGCCGAGCTTCTCTTACTTGGAGGGCATGAGAAAGTGGATGGCCAGCGGGTCAAGAGT 191
Qy 41 AspArgGluTyrAlaGlyLeuLeuHisHisMetSerLeuGlnAspSerGlyGlnSer 60
Db 192 GACAGGAGATGATGAGAGACTGCTTCCACCATGTGCTCCGAGGACAGTGGGGGCCAGAGC 251
Qy 61 ArgAlaIleSerProAspSerProIleSerGlnSerTrpAlaGluIleThrSerGlnThr 80
Db 252 CGGGCCATCAGCCCTGACAGCCCATCAGTCAGTCTGGGCTGAGATCACCAGCCAAACT 311
Qy 81 GluGlyLeuSerArgLeuLeuArgGlnHisAlaGluAspLeuAsnSerGlyProLeuSer 100
Db 312 GAGGGCCCTGAGCCGCTTGTCTGCGGAGCAGCAGCGAGGATCTGAACCTCAGGGCCCTTGAGC 371
Qy 101 LysLeuSerLeuLeuIleArgGluArgGlnGlnLeuArgLysThrTrpSerGluGlnTrp 120
Db 372 AAGCTGAGCCTGTCTCATCCGGGAAACGGCAGCAGCTTCGCAAGACCTTACAGCGAGCATGG 431
```

```
Qy 121 GlnGlnLeuGlnGlnGluLeuThrLysThrHisSerGlnAspIleGluLysLeuLysSer 140
Db 432 CAGCAGCTGCAGCAGGAGCTTCAACAAGACCCACAGCAGGACATTTGAGAAGCTTGAAGAGC 491
Qy 141 GlnTyrArgAlaLeuAlaArgAspSerAlaGlnAlaLysArgLysTyrGlnGluAlaSer 160
Db 492 CAGTACCGAGCTTGCAGACGGGACGTGCCCAAGCAAGCGCAAGTACCAGAGGGCCAGC 551
Qy 161 LysAspLysAspArgAspLysAlaLysAspLysTyrValArgSerLeuTrpLysLeuPhe 180
Db 552 AAAGACAAGGACCGCTGCAAGGCCAAGGACAGTATGTGCGCAGCCTGTGGAAGCTCTTT 611
Qy 181 AlaHisHisAsnArgTyrValLeuGlyValArgAlaAlaGlnLeuHisHisGlnHis 200
Db 612 GCTCACCACAACCGCTATGTGTGGCGCTGCGGGCTGCGCAGCTACACACACGAGCCAC 671
Qy 201 HisGlnLeuLeuProGlyLeuLeuArgSerLeuGlnAspLeuHisGluGluMetAla 220
Db 672 CACCAGCTCTCTGTCGCCGCCCTGCTGCGGTCTACTGCAGGACCTGCAGAGGATGGCT 731
Qy 221 CysIleLeuLysGluIleLeuGlnGluTyrLeuGluLysSerSerLeuValGlnAspGlu 240
Db 732 TGCTATCTGAGGAGATCTCTGAGGAAATACCTGAGATTTAGCAGCTGTGTGCAAGATGAG 791
Qy 241 ValValAlaIleHisArgGluMetAlaAlaAlaAargIleGlnProGluAlaGlu 260
Db 792 GTGGTGGCCATTCAACGGGAGATGGCTGCAGCTGCTGCCCGCATCCAGCCTGAGGCTGAG 851
Qy 261 TyrGlnGlyPheLeuArgGlnTyrGlySerAlaProAspValProProCysValThrPhe 280
Db 852 TACCAAGGCTTCTGCGCAGATATGGTGGCGCATCTGAGCTGCCACCTGTGTGTGTGTGT 911
Qy 281 AspGluSerLeuGluGluGlyGluProLeuGluProGlyGluLeuGlnLeuAsnGlu 300
Db 912 GATGAGTCTACTGTGAGGAGGGTGAACCGCTGGAGCCTGGGAGCTTCCAGCTGAAACGAG 971
Qy 301 LeuThrValGluSerValGlnHisThrLeuThrSerValThrAspGluLeuAlaValAla 320
Db 972 CTGACTGTGGAGAGCGTGACGACACCGCTGACCTCAGTGACAGATGAGCTGGCTGTGGCC 1031
Qy 321 ThrGluMetValPheArgArgGlnGluMetValThrGlnLeuGlnGlnLeuArgAsn 340
Db 1032 ACCGAGATGGTGTTCAGGGCGCAGGAGATGGTTTACGAGCTGCAACAGGAGCTCCGGAAT 1091
Qy 341 GluGluGluAsnThrHisProArgGluArgValGlnLeuGluGlyLysArgGlnValLeu 360
Db 1092 GAAGAGGAGAAACACCCACCCCGGGAGCGGTGTCAGCTGCTGGGCAAGAGGCAAGTGCTG 1151
Qy 361 GlnGluAlaLeuGlnGlyLeuGlnValAlaLeuCysSerGlnAlaLysLeuGlnAlaGln 380
Db 1152 CAAGAAGCACTGCAGGGGCTGCAGGTTAGCGCTGTGCAGCAGGCCAAGCTGCAGGCCAG 1211
Qy 381 GlnGluLeuLeuGlnThrLysLeuGluHisLeuGlyProGlyGluProProValLeu 400
Db 1212 CAGGAGTGTCTGCAGACCAAGCTGGAGCACCTGGGGCCCGGGCAGGCCCGCTGTGCTG 1271
Qy 401 LeuLeuGlnAspAspArgHisSerThrSerSerSerGluGlnGluArgGluGlyArg 420
Db 1272 CTCCTCGAGATGACCGCCACTCCACGTCTCTCGAGCAGGAGCGAGGGGGGAAGG 1331
Qy 421 ThrProThrLeuGluIleLeuLysSerHisIleSerGlyIlePheArgProLysPheSer 440
Db 1332 ACACCACCGCTGGAGATCTTAAAGGCCACATCTCAGGAATCTTCGCCCCCAAGTTCTCG 1391
Qy 441 AsnLeuTyrArgLeuGluGlyGluGlyPheProSerIleProLeuLeuIleAspHisLeu 460
Db 1392 AACCTGTATCCGACTGGAGGGGAAGGCTTTCCTAGCATTCCTTTGTGTCATCGACCACTA 1451
Qy 461 LeuSerThrGlnGlnProLeuThrLysLysSerGlyValValLeuHisArgAlaValPro 480
Db 1452 CTGAGCAGCCACGAGCCCTCCACCAAGAGAGTGGTGTGTCTGTGCAGAGGGCTGTGCC 1511
```

```
QY 481 LysAspLysTrpValLeuAsnHisGluAspLeuValLeuGluGlnIleGlyArgGly 500
Db 1512 AAGGCAAGTGGTGTGTAACCATGAGACCTGGTGTGGTGAGCAGATTGGACGGGG 1571
QY 501 AsnPheGlyGluValPheSerGlyArgLeuArgAlaAspAsnThrLeuValAlaValLys 520
Db 1572 AACTTTGGCGAAGTGTTCAGCGGACCTCGCAGCGGACCAACACCTGGTGGCGGTGAAG 1631
QY 521 SerCysArgGluThrLeuProAspLeuProAspLeuValPheLeuGlnGluAlaArgIle 540
Db 1632 TCTTGTGAGAGACGCTCCACCTGACCTCAAGGCCAAGTTTCTCAGGAAGCGAGATC 1691
QY 541 LeuLysGlnTrpSerHisProAsnIleValArgLeuIleGlyValCysThrGlnLysGln 560
Db 1692 CTGAAGCAGTACAGCCACCCCAACATCGTGGTCTCATTTGGTGTCTGACCCAGAGCAG 1751
QY 561 ProIleTyrIleValMetGluLeuValGlnGlyAspPheLeuThrPheLeuArgThr 580
Db 1752 CCCATCTACATCGTATGGAGCTTGTGCAAGGGGGGACCTTCCTGACCTTCCTCCGCACG 1811
QY 581 GluGlyAlaArgLeuArgValLysThrLeuLeuGlnMetValGlyAspAlaAlaGly 600
Db 1812 GAGGGGGCCGCTCGGGGTGAAGATCTTGCTGCAGATGTGGGGGATGCAGCTGCTGGC 1871
QY 601 MetGluTrpLeuGluSerLysCysCysIleHisArgAspLeuAlaAlaArgAsnCysLeu 620
Db 1872 ATGGAGTACCTGAGAGCAAGTCTGCATCCACCGGACCTGGCTGCTCGGAACCTGCTG 1931
QY 621 ValThrGluLysAsnValLeuLysIleSerAspPheGlyMetSerArgGluGluAlaAsp 640
Db 1932 GTGACAGAGAAGAATGCTCTGAAGATCAGTGACTTTGGGATGTCTCCGAGAGGAGCCGAT 1991
QY 641 GlyValTyrAlaAlaSerGlyGlyLeuArgGlnValProValLysTrpThrAlaProGlu 660
Db 1992 GGGGTCTATGCACCTCAGGGGGCCCTCAGCAAGTCCCGTGNAGTGGACCGCACCTGAG 2051
QY 661 AlaLeuAsnTrpGlyArgTrpSerSerGluSerAspValTrpSerPheGlyIleLeuLeu 680
Db 2052 GCCCTTAACCTACGGCGCTACTCTCCGAAAGCGACGTGTGGAGCTTTGGCATCTTGCTC 2111
QY 681 TrpGluThrPheSerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnGlnThrArg 700
Db 2112 TGGAGACCTTTCAGCTGGGGGCTCCCGCTATCCCAACTCAGCAATCAGCAGACACGG 2171
QY 701 GluPheValGluLysGlyArgLeuProCysProGluLeuCysProAspAlaValPhe 720
Db 2172 GAGTTTGTGAGAAGGGGGCCGCTGCTCCCTGCCCAGAGCTGTCTGTATGCCGTGTC 2231
QY 721 ArgLeuMetGluGlnCysTrpAlaTyrGluProGlyGlnArgProSerPheSerThrIle 740
Db 2232 AGGCTCATGGAGCAGTCTGGGCTATGAGCCTGGGCGGCGCCAGCTTCAGCACCATC 2291
QY 741 TyrGlnGluLeuGlnSerIleArgLysArgHisArg 752
Db 2292 TACCAGAGCTGCAGAGCATCCGAAAGCGGCATCGG 2327
```

RESULT 3

```
US-10-240-965-256
; Sequence 256, Application US/10240965
; Publication No. US20030165924A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: SHIFFMAN, Dov
; APPLICANT: SOMOGYI, Roland
; APPLICANT: LAWN, Richard M.
; APPLICANT: SEILHAMER, Jeffrey J.
; APPLICANT: PORTER, Gordon J.
; APPLICANT: MIKITA, Thomas
; APPLICANT: TAI, Julie
; TITLE OF INVENTION: GENES EXPRESSED IN FOAM CELL DIFFERENTIATION
; FILE REFERENCE: PA-0025 PCT
; CURRENT APPLICATION NUMBER: US/10/240,965
; CURRENT FILING DATE: 2002-10-04
```

```
; PRIOR APPLICATION NUMBER: 60/195,106
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 276
; SOFTWARE: PERL Program
; SEQ ID NO 256
; LENGTH: 2889
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20030165924A1 997347.6
US-10-240-965-256
```

```
Alignment Scores:
Pred. No.: 0 Length: 2889
Score: 3821.00 Matches: 752
Percent Similarity: 91.37% Conservatives: 0
Best Local Similarity: 91.37% Mismatches: 0
Query Match: 98.50% Indels: 71
DB: 16 Gaps: 1
```

US-10-660-763-2 (1-752) x US-10-240-965-256 (1-2889)

```
QY 1 MetGlyPheSerSerGluLeuCysSerProGlnGlyHisGlyValLeuGlnGlnMetGln 20
Db 188 ATGGGCTTCTCTCTGAGCTGTGCAGCCGCCAGGGGCCACGGGGTCTCTGCAGCAATGCAG 247
QY 21 GluAlaGluLeuArgLeuLeuGluGlyMetArgLysTrpMetAlaGlnArgValLysSer 40
Db 248 GAGGCGGAGCTTCTGCTACTGGAGGGCATGAGAAAGTGGATGGCCAGCGGGTCAAGAGT 307
QY 41 AspArgGluTyrAlaGlyLeuLeuHisMetSerLeuGlnAspSerGlyGlyGlnSer 60
Db 308 GACAGGGAGTATGCAGGACTGCTTCAACACATGTCCCTGCAGACAGTGGGGGCCAGAGC 367
QY 61 ArgAlaIleSerProAspSerProIleSerGlnSerTrpAlaGluIleThrSerGlnThr 80
Db 368 CGGGCCATCAGCCCTGACAGCCCATCATGCTAGTCTCTGGCTGAGATCATCCAGCCAACT 427
QY 81 Glu-GlyLeuSerArgLeuLeuArgGlnHisAlaGluAspLeuAsnSerGlyProLeuSe 100
Db 428 GAGGGGCTTGACCCCTTGTGGCGCAGCACCGCAGAGGATCTGAACCTCAGGGCCCTGAG 487
QY 100 rLysLeuSerLeuLeuIleArgGluArgGlnGlnLeuArgLysThrTyrSerGluGlnTr 120
Db 488 CAAGCTGAGCTTCTCATCCGGGAACCGCAGCAGCTTCGCAAGACCTACAGCAGCAGTGS 547
QY 120 pGlnGlnLeuGlnGlnLeuThrLysThrHisSerGlnAspIleGluLysLeuLysSe 140
Db 548 GCAGCAGCTGTCAGCAGGAGCTCACCAGACCCACAGCCAGGACATTGAGAAGCTGAAGAG 607
QY 140 rGlnTyrArgAlaLeuAlaArgAspSerAlaGlnAlaLysArgLysTyrGlnGluAlaSe 160
Db 608 CCAGTACCGAGCTCTGGCACCGGACAGTCCCAAGCCCAAGCGCAAGTACCAGAGGCCAG 667
QY 160 rLysAspLysAspArgAspLysAlaLysAspLysTyrValArgSerLeuTrpLysLeuPh 180
Db 668 CAAGACAGGACCGTACAGGCCCAAGGACAAGTATGTACGACGCTCTGGAAGCTCTT 727
QY 180 eAlaHisHisAsnArgTyrValLeuGlyValArgAlaAlaGlnLeuHisGlnHisHi 200
Db 728 TGCTCACCACAACCGCTATGTCTGGCGTGGCGGCTGGCAGCTACACCAGCAGCACA 787
QY 200 sHisGlnLeuLeuLeuProGlyLeuLeuArgSerLeuGlnAspLeuHisGluGluMetAl 220
Db 788 CCACCAGCTCTGCTGCCCGGCTGCTGGTCACTGCAGGACCTGCACGAGAGATGGC 847
QY 220 aCysIleLeuLysGluIleLeuGlnGluTyrLeuGluIleSerSerLeuValGlnAspGl 240
Db 848 TTGCATCTCTGAAGAGATCTCTCAGGAATACCTGGAGATTAGCAGCTCTGTCAGATGA 907
QY 240 uValValAlaIleHisArgGluMetAlaAlaAlaArgIleGlnProGluAlaGl 260
```

Db 908 GGTGGTGGCCATTACCGGGAGATGGCTGCAGCTGCTGCCGCATCCAGCTCAGGGCTGA 967
Qy 260 uTyrGlnGlyPheLeuArgGlnTyrGlySerAlaProAspValProCysValThrPh 280
Db 968 GTACCAAGGCTTCCTGCGACAGTATGGTCCGACACCTGACGTCCACCTGTGTACGTT 1027
Qy 280 eAspGluSerLeuLeuGluGlyGluProLeuGluProGlyGluLeuGlnLeuAsnG1 300
Db 1028 CGATGAGTCACTGCTTGGAGGGGTGAACCGCTGGAGCTGGGGAGCTCCAGCTGAACGA 1087
Qy 300 uLeuThrValGluSerValGlnHisThrLeuThrSerValThrAspGluLeuAlaValA1 320
Db 1088 GCTGACTGTGGAGCGCTGCAGCACAGCTGACCTCAGTGACAGATGAGCTGGCTGTGGC 1147
Qy 320 aThrGluMetValPheArgGlnGluMetValThrGlnLeuGlnGlnGluLeuArgAs 340
Db 1148 CACCGAGATGGTGTTCAGGCGGCAGGAGATGGTTACGCAGCTGCAACAGGAGCTCCGAA 1207
Qy 340 nGluGluGluAsnThrHisProArgGluArgValGlnLeuLeuGlyLysArgGlnValLe 360
Db 1208 TGAAGAGGAGAACACCCACCCCGGAGCGGGTGCAGCTGCTGGGCAAGAGCAAGTGCCT 1267
Qy 360 uGlnGluAlaLeuGlnGlyLeuGlnValAlaLeuCysSerGlnAlaLysLeuGlnAlaG1 380
Db 1268 GCAGAGAGCACTGCAGGGGGCTGCAGGTAGCGCTGTGCAGCAGCCAGCTGCAGGGCCA 1327
Qy 380 nGlnGluLeuGlnThrLysLeuGluHisLeuGlyProGlyGluProProValLe 400
Db 1328 GCAGGAGTGTCTGCAGACCAAGCTGGAGACCTGGGCCCCGGCAGGCCCCGCTGTGCT 1387
Qy 400 uLeuLeuGluAspAspArgHisThrSerSerSerGluGlnGluArgGluGlyArg 420
Db 1388 GCTCTCTCAGGATGACCGCACTCCAGCTGCTCTCGGAGCAGGAGGAGGGGGAAG 1447
Qy 420 gThrProThrLeuGluLeuLysSerHisLysSerGlyLysPheArgProLysPheSe 440
Db 1448 GACACCCACGCTGAGATCCTTAAGAGCCATCTCAGGAATCTTCCGCCCAAGTTCTC 1507
Qy 440 r----- 440
Db 1508 GCTCCCTCCACCGCTGCAGCTCATTCGGAGGTGCAGAGCCCTGCGATGAGCAGCTGTG 1567
Qy 440 ----- 440
Db 1568 GTACACGGGGCCATCCGAGGGCAGAGTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1627
Qy 440 ----- 440
Db 1628 CCTGTGCGGAGAGCAGCGGCAAGAGGAGTACGTCTGTGCTGCTGCTGCTGCTGCTGCT 1687
Qy 441 -----AsnLeuTyrArgLeuGluGlyGlyPh 450
Db 1688 GCCCGGCACCTTCATCATCCAGTCTTGGTAACCTGTACCGACTGGAAGGGAGGCTT 1747
Qy 450 eProSerIleProLeuLeuLeuAspHisLeuLeuSerThrGlnGlnProLeuThrLysLy 470
Db 1748 TCCTAGCATTCCTTGTCTCATCGACCACTACTGAGCACCAGCAGCAGCCCTCCACCAAG 1807
Qy 470 sSerGlyValValLeuHisArgAlaValProLysAspLysThrValLeuAsnHisGluAs 490
Db 1808 GAGTGGTGTGTCTGCTGCACAGGGCTGTGCCCAAGGCAAGTGGGTGCTGAACCACTAGGA 1867
Qy 490 pLeuValLeuGlyGluGlnIleGlyArgGlyAsnPheGlyGluValPheSerGlyArgLe 510
Db 1868 CCTGTGTGTGGTGAGCAGATTCGACCGGGGAACCTTGGCGAAGTGTTCAGCGGACGCT 1927
Qy 510 uArgAlaAspAsnThrLeuValAlaValLysSerCysArgGluThrLeuProProAspLe 530
Db 1928 GCGAGCGGCAACACCCCTGTGGGGGTGAAGTCTTGTGAGAGACGCTCCACCTGACCT 1987
Qy 530 uLysAlaLysPheLeuGlnGluAlaArgLleLeuLysGlnTyrSerHisProAsnLleVa 550
Db 1988 CAAGGCCAAGTTTCTACAGGAAGCAGGATCTCGAAGCAGTACAGCCACCCCAACATCGT 2047

Qy 550 lArgLeuIleGlyValCysThrGlnLysGlnProLleTyrIleValMetGluLeuValG1 570
Db 2048 GCCTCTCAITGGTGTCTGCACCAGAGCAGCCCATCTACATGCTCATGGAGCTTGCA 2107
Qy 570 nGlyGlyAspPheLeuThrPheLeuArgThrGluGlyAlaArgLeuArgValLysThrLe 590
Db 2108 GGGGGGCGACTTCCTGACCTTCCTCGCACGGAGGGGGCCGCTGCGGGTGAAGACTCT 2167
Qy 590 uLeuGlnMetValGlyAspAlaAlaAlaGlyMetGluTyrLeuGluSerLysCysCys11 610
Db 2168 GCTGCAAGTGGTGGGGATGCAGCTGCTGGCATGGAGTACCTGGAGAGCAAGTGTGCAT 2227
Qy 610 eHisArgAspLeuAlaAlaArgAsnCysLeuValThrGluLysAsnValLeuLysIleSe 630
Db 2228 CCACCGGACCTGGCTGCTCGGAACCTGCCTGGTGACAGAGAAGATGCTCCTGAAGATCAG 2287
Qy 630 rAspPheGlyMetSerArgGluGluAlaAspGlyValTyrAlaLaserGlyGlyLeuAr 650
Db 2288 TGACTTTGGGATGTCCGAGAGAGAGCCGATGGGGTCTATGCAGCCTCAGGGGGCCTCAG 2347
Qy 650 gGlnValProValLysTrpThrAlaProGluAlaLeuAsnTyrGlyArgTyrSerSerG1 670
Db 2348 ACAAGTCCCGTGTAGTGGACCCGACCTGAGGGCCCTTAACCTAGGGCGCTACTCCTCGA 2407
Qy 670 uSerAspValTrpSerPheGlyIleLeuLeuTrpGluThrPheSerLeuGlyAlaSerPr 690
Db 2408 AAGCAGCTGTGGAGCTTTGGCATCTTGTCTCTGGAGACCTTCAGCCTCGGGGCTCCTCC 2467
Qy 690 oTyrProAsnLeuSerAsnGlnGlnThrArgGluPheValGluLysGlyArgLeuPr 710
Db 2468 CTATCCCAACCTCAGCAATCAGAGACACCGGGAGTTTGTGAGAAGGGGGGCGCTCTGCC 2527
Qy 710 oCysProGluLeuCysProAspAlaValPheArgLeuMetGluGlnCysTrpAlaTyrG1 730
Db 2528 CTGCCAGAGCTGTGCTGATGCCGTTCAGGCTCATGGAGCAGTGTCTGGGCTATGA 2587
Qy 730 uProGlyGlnArgProSerPheSerThrIleTyrGlnGluLeuGlnSerIleArgLysAr 750
Db 2588 GCCTGGGAGCGGCCAGCTTCAGCACCATCTACCAGGAGCTGCAGAGCATCCGAAAGCG 2647
Qy 750 gHisArg 752
Db 2648 GCATCGG 2654

RESULT 4

US-10-003-295-3

; Sequence 3, Application US/10003295

; Publication No. US20020168741A1

; GENERAL INFORMATION:

; APPLICANT: GAN, Weinliu et al.

; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC

; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES

; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: C000183DIV

; CURRENT APPLICATION NUMBER: US/10/003,295

; CURRENT FILING DATE: 2001-12-06

; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 3

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-003-295-3

Alignment Scores:

Pred. No.:	1,01e-191	Length:	15297
Score:	2137.00	Matches:	747
Percent Similarity:	21.28%	Conservative:	0
Best Local Similarity:	21.28%	Mismatches:	5
Query Match:	55.09%	Indels:	2764
DB:	13	Gaps:	16

[illegible]

Db	6882	GGTGGCATTACACGGGAGATGCGCAGCTGTGCGCCGCATCCAGCCCTGAGGCTAGTA	6941	QY	440	-----	440
QY	261	rGlnGlyPheLeuArgGlnTyr-Gly-	269	Db	8020	CAGCCTGGGCCCCCTACTGTGTGTTCGAGTTTAATCACTGGGATGCTCTAGAGAGA	8079
Db	6942	CCAAGGCTTCCTGGGACAGATATGGTAAGCCCGCTGCTCTGCTGGGCCACGGCT	7001	QY	440	-----	440
QY	270	-----SerAlaProAspValProProC	277	Db	8080	GGCTCTGCCACGGCTGCTTGTATTGGGAAGTTCTCTCTTCCCTGGGATTCCAGGCTGCA	8139
Db	7002	GCTGGCCTGTCCACTGACGGGGCGCTGTCCCCACAGGTCGCGACCTGACGTCCACCCCT	7061	QY	440	-----	440
QY	277	yeValThrPheAspGluSerLeuGluGluGluGluProGluProGluGluLeuG	297	Db	8140	GATGTCCCAGACCCCTGCCCCCTGTGACCCCTCCCTTTCCATCGCCCCAGTGTGCTAAAGG	8199
Db	7062	GTGTACGTTCCGATGAGTACTGCTTGAGAGGGTGAACCGCTGGAGCCTGGGGAGCTCC	7121	QY	440	-----	440
QY	297	lnLeuAenGluLeuThrValGluSerValGlnHisThrLeu-	310	Db	8200	GACCAGCAACCTCGACTATTCCATGGCTCTCCCTGCTTCAGGAGCGGTTGGGGCCTGTG	8259
Db	7122	AGCTGAACGAGCTGACTGTGTGGAGAGCGTGAGCACACGTCG- GGTGGTGGCTTTGCACTG	7180	QY	440	-----	440
QY	310	-----	310	Db	8260	GCCTGGAGGAGGAGCACGAGCTTGTTTGGGGTCTTCTCGCTGGGCTTCCCTTCCCGAG	8319
Db	7181	GGCTGGCGGGGCTCCAGCAGACACGAGTGTATTATGTAGGAGGGCTAGTCTGTGA	7240	QY	440	-----	440
QY	310	-----	310	Db	8320	CTCTGCCAGCGTAGCCTGGGCCAGTCCAGTGCACCTCCAGGGGCCCTGTGATGGCTC	8379
Db	7241	GACTGTCCACACAGAGCTGTACACAGGTGCGGGCTTGCTTGCTCTACAGGGATGCAC	7300	QY	440	-----	440
QY	310	-----	310	Db	8380	TGCATGCCACTCCATGGTTGTAAGGCTGAGGGCATATAGGGGGAGAGAGACCCCCG	8439
Db	7301	TGGACCTGGGTTGAGGGGGCAGGAGGCTCGGTTCTTAATGCTGCCCTTCTCTTGGGTGCA	7360	QY	440	-----	440
QY	311	-----ThrSerValThrAspGluLeuAlaValAlaThrGluMetValPheArgArgGlnG	329	Db	8440	GCTGCCCCACCGGCTCTTCAACAAGGTGGTTAAGTGACTCTCTCTCGATCTCTCCCTTG	8499
Db	7361	GGCTGACCTCAGTGACAGATGAGTGGCTGTGGCCACCGAGATGGTGTTCAGGCGCGAGG	7420	QY	440	-----	440
QY	329	luMetValThrGlnLeuGlnGluLeuArgAenGluGluAenThrHisProArgG	349	Db	8500	CCAGCTCCCTCCACCGCTGCAGCTCATTCGCGAGGTGCAGAACCCCTCGATGAGCAGCT	8559
Db	7421	AGATGGTTACGCAGCTGCAACAGAGAGCTCCGGAATGAAGAGAGAACACCCCCCGGG	7480	QY	440	-----	440
QY	349	lu-----	349	Db	8560	GTGGTACCACGGGGCCATCCCGAGGGCAGAGGTGGCTGAGTGTGTTGGTGCACCTCTGGGGA	8619
Db	7481	AGCGGTGAGTGGGCCCTGCTGCAGCAGCCTCTCTGGGCTCCCTCCCTCTACTACCC	7540	QY	440	-----	440
QY	349	-----	349	Db	8620	CTTCTGTGTGCGGAGAGCAGCGGCAAGCAGGAGTACGTGCTGTCCGTCTCTGTGGATGG	8679
Db	7541	TAACTGTCTGTGCTAGCCCGCAGACAGCCGCTTATTCTTCATCCACCCCTCCACCC	7600	QY	440	-----	440
QY	350	-----ArgValGlnLeuLeuGlyLysArgGlnValLeuGlnGluAlaLeuGln	365	Db	8680	TCTGCCCCGGCATTTCATCATCCAGTCTTGGATGTGAGTGGGGCTGGGACCCGAGCCTT	8739
Db	7601	GCCCCCTGCTGCAGGGTGCAGCTGTGGGCAAGGCAAGTGTCTCAAGAGACACTGCAG	7660	QY	440	-----	440
QY	366	GlyLeuGlnValAlaLeuCysserGlnAlaLysLeuGlnAlaGlnGlnLeuLeuGln	385	Db	8740	CCAGGCCTCACCTCTTCCCTCCCTTCCCAAGGGAATGGCCTTTTCAGGGTAGGG	8799
Db	7661	GGGCTGCAGGTAGCGCTGTGCAGCGCCCAAGCTGCAGGCCCCAGCAGGAGTTGCTGCAG	7720	QY	440	-----	440
QY	386	ThrLysLeuGluHisLeuGlyProGlyGluProProValLeuLeuGlnAspAsp	405	Db	8800	GGTAGCTGCCAGGTCTTGGATGCCCTCCCTAGCAGGGCTGGTGGAAAGGGGCCACAGAGAC	8859
Db	7721	ACCAAGCTGAGACCTTGGGCCCGCGAGCCCGCTGTGCTGCTCTGCTGCAGGATGAC	7780	QY	440	-----	440
QY	406	ArgHisSerThrSerSerSer-----	412	Db	8860	CACCCCTGCTCCCTGCAACAAAATAGAGGCTTAAGTGTGAGTCTCCCTCGTGGGGCAGCA	8919
Db	7781	CGCCACTCCACGTCTCTCTC- GGTGAGCTGCCCCCATCCCGCGCGCGTGCCTCCCGCCACCGGC	7839	QY	440	-----	440
QY	412	-----	412	Db	8920	GGATGTCTATGTGCCATCAGATGGCATCTTTTCTGGAGGTCTCTCTGCCCTCTGCTCTGGG	8979
Db	7840	CTGCCACCTGGGCTCGGCTCCTCATTTTTCGCCCTCCCTCCCTTAAGCCTGCCACCC	7899	QY	440	-----	440
QY	413	-----GluGlnGluArgGluGlyArgGlyArgThrProThrLeu	424	Db	8980	CAGGCCCCCTTCTCCCTCTGTCTCTCCCTTCCCGCTCCAGGGCTCACGCCCCCTCAGA	9039
Db	7900	GCTGACGTCTGTCCCTGGCCCTCAGGACGAGGAGGGGGGAAGGACACCCACGCTG	7959	QY	441	-----	448
QY	425	GluIleLeuLysSerHisIleSerGlyIlePheArgProLysPheSer-----	440	Db	9040	ATGGAGGCTGCTGACCCCGGGTCCCTCGCCCTGCGCCTGCAGAACCTGTATCCGACTGGAAGGGAA	9099
Db	7960	GAGATCTTAAGAGCCACATCTCAGGAAATCTTCGCCCCCAAGTTCTCGGTGAGTGGCGCC	8019				

Qy 449 GlyPheProSerIleProLeuLeuIleAspHisLeuLeuSerThrGlnGlnProLeuThr 468
Db 9100 GGCTTTCTAGCATTCCTTGTCTCATGCACACCTACTAGCAGCCAGCCCTCCACC 9159
Qy 469 LysLysSerGlyValValLeuHisArgAlaValProLys----- 481
Db 9160 AAGAAGAGTGGTGTGCTTCTGCACAGGGCTGTGCCCAAGGTGAGCCTGCACCCAGCCCTGG 9219
Qy 481 ----- 481
Db 9220 CCATGCACCTGTGGCAGGGCTTGGGAGGTGGGTGAGGCCACCCAGCGTCTGAGCA 9279
Qy 481 ----- 481
Db 9280 GAAAGGGCTTTCCAGGCCCTCCGTCTATACAAAGATGCAGAGTGAAGTCAAGGC 9339
Qy 481 ----- 481
Db 9340 CAGCCTTGCTAGGTTTGGATGTAGGGCCACTCCTATGCCATGGCTGTACACACCA 9399
Qy 481 ----- 481
Db 9400 GGTGGTGTCTACCTGTGTCAGGGCACCTGCCTGGACCCCGTAGTCATCTCAGTGTGCTCC 9459
Qy 481 ----- 481
Db 9460 CCACGTGTGCCACCCCTGTGTACATATGGAGGCGCCAAAAATGGAGGACACAGCCCTT 9519
Qy 481 ----- 481
Db 9520 CTAAGGGCCAGCACCCCTTTTCTTCAGACTTCTGTATGCCCTGTCTCTCTTCCCCAG 9579
Qy 482 AspLysTrpValLeuAsnHisGluAspLeuValLeuGlyGluGlnIleGlyArg----- 499
Db 9580 GACAAGTGGTGTGAACCATGAGGACCTGGTGTGGTGAGCAGATGGACG-GGTGAG 9638
Qy 499 ----- 499
Db 9639 TGCCTCTGTGGCTCTTGTGCTGGCGACTTCTCTGAGTCGGCGCTGGGCCCCCT 9698
Qy 499 ----- 499
Db 9699 GCCTACACCCAGAAACCTCCCTGCCCATCTGTGATTTCCCCACTTGTACCCGACTCCCT 9758
Qy 499 ----- 499
Db 9759 GCCCAGCCCCCACCACACACCATCTCCAGGAAAGGGACAGTACTACGCTGAAACTC 9818
Qy 499 ----- 499
Db 9819 CCAGCAGACAGCTCTGCCAGCACCTGACCTCATCACCCACCCAGCGCCGCCCATCG 9878
Qy 499 ----- 499
Db 9879 AGCTTTGTGTGCAGCAGGAGAGACACCTGTTACTGTAGCCATAAGTACTGTTTAG 9938
Qy 499 ----- 499
Db 9939 GGAAGAAGTCACTGTCTTAAATAACAGAAATGCTTTTCAAACCCAGGAGAGTGAATTTT 9998
Qy 499 ----- 499
Db 9999 GGATTTCCATGTCACTTCTCTCAGGAGGGTGGCAGATCGGAGGCAACTTTCCTGCTG 10058
Qy 499 ----- 499
Db 10059 CCCCATGTGCTCTCTAGGTTCCCGAGGAGGGTCAAACTCCAGAGAGCCTGGGTGGAGG 10118
Qy 499 ----- 499
Db 10119 GGTGGAACACGGGGGGCCCCCTCACCCAGGGGTAGGAACAGCAANTGGGTAGGAAGCGGAGA 10178
Qy 500 -----GlyAsnPhe 502

Db 10179 AGAGAACTGGGGACTGGGAAGCCCTGTGTAGAGAGCCCAAGACCGTTTTCAGGGGAACCTTT 10238
Qy 503 GlyGluValPheSerGlyArgLeuArgAlaAspAsnThrLeuValAlaValLysSerCys 522
Db 10239 GGCAGAGTGTTCAGCGAGCGCTGCGAGCGCCACACACCTGTGTGGCGTGAAGTCTTGT 10298
Qy 523 ArgGluThrLeuProAspLeuLysAlaLysPheLeuGlnGluAla----- 538
Db 10299 CGAGAGACGCTCCACCTGACCTCAAGGCCCAAGTTTCTACAGGAAGCGAGGTGGGTGATA 10358
Qy 538 ----- 538
Db 10359 AACTAATGATCACACGGTCCCGCATACACAGAGGTACACTGCATGGCACAGTGTGAA 10418
Qy 538 ----- 538
Db 10419 GTGCTTGACCCAGTGTGTGTGTAGTCTCGAGGCCCCCATTTGCGGTAGTACCCCC 10478
Qy 538 ----- 538
Db 10479 TTATAGTCCGAAGGGTAGAGGCTGCCCCAGGTCCACAGTCCCGGTCTGCTGGCCTTGA 10538
Qy 538 ----- 538
Db 10539 GGCCAAAGCTTCTCCCATCATCCCTGGGGGGCCCTGGGAGGGCGGCTGGCCACACGTAG 10598
Qy 539 -----ArgIleLeuLysGlnTyrSerHisProAsnIleValAr 551
Db 10599 ATCCTGAGCAGCAGTCCCTCCAGGATCTTGAAGCAGTACAGCCACCCCAACATCGTGGC 10658
Qy 551 gLeuIleGlyValCysThrGlnLysGlnProIleTyrIleValMetGluLeuValGln-- 570
Db 10659 TCTCATTTGGTGTCTGCACCCAGAGCGCCATCTACATCTCATGTGAGCTTGTGACGG 10718
Qy 570 ----- 570
Db 10719 TGAGCGGGGGCGCTGAGCTCCAGGTAGGGCGCGACCTGTGTACAGTGGCAGCCTTACC 10778
Qy 571 -----GlyGlyAspPheLeuThrPheLeuAr 579
Db 10779 TCAGGAGGCTCAGCAGGGGTCTCCCCACCTGCAGGGGGCGACTTCTCTGACCTTCTCCG 10838
Qy 579 gThrGluGlyAlaArgLeuArgValLysThrLeuLeuGlnMetValGlyAspAlaAla 599
Db 10839 CACGAGGGGGCGCGCTGCGGGTGAAGACTCTGTGCAGATGTGTGGGGATGCAGCTGC 10898
Qy 599 aGlyMetGluTyrLeuGluSerLysCysCysIleHisArg----- 612
Db 10899 TGGCATGGAGTACTCTGGAGAGCAAGTGTGTCATCCACCG-GTGAGTGGCGGTGGCCACG 10957
Qy 612 ----- 612
Db 10958 GGCCCTGCCAACACCCCGGACAGAGTCAAGAGGTACTATACCCCTAGGGCCCCCGCT 11017
Qy 612 ----- 612
Db 11018 GGACCATCAGGCATCAGCTCCAGAGGGGAGTGTGGCTCTGTGTGTAGACAGGGGTGCCCA 11077
Qy 612 ----- 612
Db 11078 GGCCCGGAGCAGCTTTTGTCTTGGCTTCTTAGAGTGTTCAGCCAGGGCTGGGACGGC 11137
Qy 613 -----AspLeuAlaAlaArgAsnCy 619
Db 11138 GACTGTTGGCAATGAGCCCCCTGCCCTGTCTCACCAGGGAGCTGGCTGCTCGGAACCTG 11197
Qy 619 sLeuValThrGluLysAsnValLeuLysIleSerAspPheGlyMetSerArgGluAla 639
Db 11198 CTTGGTGACAGAGAGAAATGCTCTGAAGATCAGTACTTGGGATGTGCCGAGAGGAAGC 11257
Qy 639 aAspGlyValTyrAlaAlaSerGlyGlyLeuArgGlnValProValLysTrpThrAlaPr 659

Db 11258 CGATGGGTCTATGCAGCCTCAGGGGCTCAGACAAAGTCCCGTGAAGTGGACCGCAC 11317
Qy 659 oGluAlaLeuAsnTyr----- 664
Db 11318 TGAGGCCCTTAACACTACGGTACTAGTCCCTGTCTACCCCTGGACTCCATGGCCAGAGCCA 11377
Qy 664 ----- 664
Db 11378 GGCTGGGTCTCGCGCTCGCTCGCCCTGGCCCGCCAGGGAGGTGCACCTCACGCTCCCTC 11437
Qy 665 -----GlyArgTyrSerSerGluSerAspValTrpSerPheGlyI 678
Db 11438 ACCTCCTCGCTCCTCTGCAGGCGCTACTCTCTCCGAAAGCGACGTGTGGAGCTTTGGCA 11497
Qy 678 leLeuLeuTrpGluThrPheSerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnG 698
Db 11498 TCTTGCTCTGGAGACCTTCAGCCTGGGGCCCTCCCCCTATCCCAACCTCAGCAATCAGC 11557
Qy 698 lnThrArgGluPheValGluLys----- 705
Db 11558 AGACCGGGATTTGTGGAGAGGGTAAGCACCCCTGTGTATGACAGAGCCTCAGGCTGCA 11617
Qy 705 ----- 705
Db 11618 CCCTTTCCAGATGCTCCAGCGGACTTTCTAACTCCCTTAATGCCAACCCTTCCACCA 11677
Qy 705 ----- 705
Db 11678 GGCAGAAATAAGATAACCTGGCCAGTGTCTCAGCGCTGTATCCAGCAGCTTTGGGAGGC 11737
Qy 705 ----- 705
Db 11738 TGAGTGGGTGGATCACTTGAGCCAGGAGTTCAAGATCAGTTGGACAACACAGTGAAA 11797
Qy 705 ----- 705
Db 11798 CTCCATCTGTACAAAAATAACAAAAATAGACTGGCAGCGGTGGCTCACACCTGTAATCCC 11857
Qy 705 ----- 705
Db 11858 AGCATTGGGGGCGCGAGCGTGGATCACCTGTGGTCAGAGTTTGAGACCAGCCAG 11917
Qy 705 ----- 705
Db 11918 ACCAATGTGTGAACCCCATCTCTACTAAAAATAACAAAAATTAGCCAGGCGATGTTGGCA 11977
Qy 705 ----- 705
Db 11978 CGTGCTGTAAATCCAGCTACTTTGGGAGGCTGAGTGGGAGAAATTCCTGAACCCAGGAG 12037
Qy 705 ----- 705
Db 12038 GCGGAGGCTGAGTGAGCCGAGATTGTGCCACTGCACTCCAGCTGGGCGACAAGATGA 12097
Qy 705 ----- 705
Db 12098 AACTCATCTCAAAAAAACCAAAAAACAAAAATAACAAAAATTAGCTGGTGTGTGAC 12157
Qy 705 ----- 705
Db 12158 ATGGCCTGTAGTCCCTGCTACTCGGAGGCTGAGTGGGAGGATCATCTGGAGCCCGGGA 12217
Qy 705 ----- 705
Db 12218 GGTGGAGTTGCAGTGAGCTGAGATCATGCCACTGCACCCCAACCTGGGTGACAGAGA 12277
Qy 705 ----- 705
Db 12278 GAGAGAGACCTTGACTCGAAAAAGAAAAAACCTGGGCGAGTGGCTCAGCGCTGTAAT 12337
Qy 705 ----- 705
Db 12338 TCAACATTTTGGGGGCTGAGGAAGGTGGATCACTTGAGTCTAGGAGTTTGACACTAGCC 12397

Qy 705 ----- 705
Db 12398 TGCCCAACATGCACAAACCTGTCTCTACTAAAAATACAAAAATTAGCGAGGTGTAGTG 12457
Qy 705 ----- 705
Db 12458 TGCAAGCCTGTAAATCCAGCTACTTTGGGAGGCTGAGGCACAAAGATCGCTTGAACTGGG 12517
Qy 705 ----- 705
Db 12518 AGGTGGAGGTTGCAGTGAGCTGAGATCACACCTGCATTTCCAGCGTGGGTGACAGAGCA 12577
Qy 705 ----- 705
Db 12578 AGACTCCATCTCAGAAAAAGAAAAAATAGAAATATCCCTGTAGCTACTACTGAGTG 12637
Qy 705 ----- 705
Db 12638 AGCACTGGTGTGTCTAGGTACATGTTATTTTCATTTGCTCATCATACATGTGTGTA 12697
Qy 705 ----- 705
Db 12698 GGGATTAATATGTCCTTTTCTCAGATGGAAGAAAGAGGCTGGCAGAGGGACACAGCTAGC 12757
Qy 705 ----- 705
Db 12758 ACGTGTAGGATTAGGATCAGAGCCAGGCTCTTTGTCTTTGGGCCCTTGTGGAGAA 12817
Qy 705 ----- 705
Db 12818 CAGTGATCCTTTCAGAACAGTGCATTTAAGCAGCTCTTATGGCTCATGGTATCCCCCAG 12877
Qy 705 ----- 705
Db 12878 AGTCTGCCAGAGACCTCTAACTCCCTCTCATGCTGCTGTGTGCTCTCTCTCA 12937
Qy 706 GlyGlyArgLeuProCysProGluLeuCysProAspAlaValPheArgLeuMetGluGln 725
Db 12938 GGGGCGCTGCTGCCCTGCCAGAGCTGTCTCTGATGCCGTGTTCAAGGCTCATGGAGCAG 12997
Qy 726 CysTrpAlaTyrGluProGlyGlnArgProSerPheSerThrIleTyrGlnLeuGln 745
Db 12998 TGCTGGCCTATGAGCTGGGAGCGGCCAGCTTTCAGACCATCTTACAGGAGCTGCAG 13057
Qy 746 SerIleArgLysArgHisArg 752
Db 13058 AGCATCCGAAAGCGGCATCGG 13078

RESULT 5
US-10-660-763-3
; Sequence 3, Application US/10660763
; Publication No. US20040063130A1
; GENERAL INFORMATION:
; APPLICANT: GAN, weiniu et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: CL001183DIVII
; CURRENT APPLICATION NUMBER: US/10/660,763
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 15297
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-660-763-3
Alignment Scores:
Pred. No.: 1,01e-191 Length: 15297
Score: 2137.00 Matches: 747
Percent Similarity: 21.28% Conservative: 0

Best Local Similarity: 21.28%		Mismatches: 5	
Query Match: 55.09%		Indels: 2764	
DB: 18		Gaps: 16	
US-10-660-763-2 (1-752) x US-10-660-763-3 (1-15297)			
Qy	1	MetGlyPheSerSerGluLeuCySerProGlnGlyHisGlyValLeuGlnMetGln	20
Db	2563	ATGGGCTTCTTCTGAGCTGTGAGCCGCCAGGGCCACGGGGTCTCTGCAGCAATGCAG	2622
Qy	21	GluAlaGluLeuArgLeuLeuGlyMetArgLysTrpMetAlaGlnArgValLysSer	40
Db	2623	GAGGCCAGCTTCTCTACTGGAGGCAATGAGAAATGGATGGCCACGCGGTCAAGAGT	2682
Qy	41	AspArgGluTyrAlaGlyLeuLeuHisMetSerLeuGlnAspSerGlyGlnSer	60
Db	2683	GACAGGAGTATGCAGGACTGCTTCCACCATGTCCCTGCAGGACAGTGGGGCCAGAGC	2742
Qy	61	ArgAlaIleSerProAspSerProIleSerGlnSer	72
Db	2743	CGGGCCATCAGCCCTGACAGCCCCCATCAGTCAGGT-GGGTCTCTATGGGACTCTGGTGGG	2801
Qy	72	-----	72
Db	2802	TGCTGGGTATCTGCCTTCTCCTTCTCTCTCTGGGGGCCCTCTGGGGCAGTGGCTGGAGA	2861
Qy	72	-----	72
Db	2862	TCTGGCAGGCCAATGCTTGGGAGCCATTGTGCCCCCTCCTCGCTCCCCCATCTGTGCT	2921
Qy	73	-----TrpAlaGluIleThrSerGlnThrGluGlyLeuSerArgLeuLeuArgGln	89
Db	2922	GTATAGTCTCTGGGCTGAGATCACCAGCCAACTGAGGGCCTGAGCCGCTTGTCTGGCGAG	2981
Qy	90	HisAlaGluAspLeuAenSerGlyProLeuSerLysLeuSerLeuLeuIleArgGluArg	109
Db	2982	CACGACAGGATCTGAATCAGGGCCCTTGAGCAAGCTGAGCTGCTCATCCGGGAACGG	3041
Qy	110	GlnGlnLeuArgLysThrTyrSerGluGlnTrpGlnGlnLeuGlnGluLeuThrLys	129
Db	3042	CAGCAGCTTCGCAAGACCTACAGCGAGCAGTGGCAGCAGCTGCAGCAGGAGCTACCCAG	3101
Qy	129	-----	129
Db	3102	GTGAGCGGCGAGCAGCTGGGGCTTCGGTCAATTTCTGTCTAAATTTTGAGCCTCGAAGGGGT	3161
Qy	129	-----	129
Db	3162	TGTTTTGCACAGAGGCCCTGGATTCACTGGGGAAGTGTAAAGTCCCTGACCGCAGGCCTG	3221
Qy	129	-----	129
Db	3222	GCTTGCTTAACCTTGATGTAGCTTCTCTCTTCTTCCCTACGTTGAGCTGGCTTGCA	3281
Qy	129	-----	129
Db	3282	GCAAGGCTCTCTGTGCTTTTCTGTGCTGGCCAAAGTGTGGGAGTGTAAAGATGAGT	3341
Qy	129	-----	129
Db	3342	GACCGGTACGTGCTGCGCTGGGAGAGCTCAGAAATCGGTACTCGCCTCCACACTGTGCCATCT	3401
Qy	129	-----	129
Db	3402	GGCTCTGGGTCTGAGAGTCAGGAGAGGAATGAGGGTCAGTCTGTTTGGCTTCGACCTA	3461
Qy	129	-----	129
Db	3462	TGCAGCCTCTCTCAGGGCCCCAGAGACTGTGGCAGCAGCATGGCCCCCGAAGGTTCGAGG	3521
Qy	129	-----	129
Db	3522	ACTCGGGCCGTGAAGTCAGCTGCTTGGTGTGAAATCCCAAGCTCCTCAGTCTAGAG	3581
Qy	129	-----	129
Db	3582	GCTGTGTGATTTGGAACTATTATCTGGGAGCCTAGTGGCCCAATTCAGTGTCTGTGTCA	3641
Qy	129	-----	129
Db	3642	CCCTCCTGCACACACCCCTTCTCAAGTGCAGAGCCAGCCTTGCCATGGAGCCACAG	3701
Qy	129	-----	129
Db	3702	CGGCCCTTGGTGGCCACCCCTGGCCCCCATCTCTCGCCCCAAAAGATCATCTGATTCAAGGG	3761
Qy	129	-----	129
Db	3762	TGGGCCCATTTTATAAAGTTTGTCTGGAACACAGCATATGCCCTTTGTTTTTCATATTGT	3821
Qy	129	-----	129
Db	3822	CTGTGACTACAATGACAGAGTTGAGTAATTTGTGACAGAGGCTCTATGGCCTTACAAGCCTA	3881
Qy	129	-----	129
Db	3882	AAATATTTTACTATCTGGCCCTTTAAGAAAAAGACTGATCTAGTCGAGGAATCTAGC	3941
Qy	129	-----	129
Db	3942	TCAGTTACAGATGGGGAACTGAGGTTGGGCGCTTGCCCAACATATCCAGCACATAAAC	4001
Qy	129	-----	129
Db	4002	AGGAGAACTGGGACGAGAAACACTGATCTCGGGCTGTCACTATTCTTACTGCTCCCAAGAACA	4061
Qy	129	-----	129
Db	4062	TAATTTGACGAGCCAGTGCAAAGTCAAATTTGTGGGGTCTTTGTTTAAAAGATTGCTAGG	4121
Qy	129	-----	129
Db	4122	AATTTCCAGGTGGCAATAATGGAGAAATGAACCAAGCACAGGGCCCTTCTACATGTGGAG	4181
Qy	129	-----	129
Db	4182	CCCCGTGTGACTGCACAGCGCGTGACACTGCAACTGGCCCTGCGCTGCCACCAGGCTAC	4241
Qy	129	-----	129
Db	4242	CAGTGTCACTCCAAGGAGGAGCCGTTGTAGCCTGTAGTCTACCTCTTTGCTCCCCAAGG	4301
Qy	129	-----	129
Db	4302	GGTCTGTCTTCAACAGGCTCTCTGATCTTTGACTCTCAGTCAAGCAGCAGCTTTCCAG	4361
Qy	129	-----	129
Db	4362	AAGTCTCCAGGTGCTCTTGTCTGACGACAGGACCTTTTCAGGGCTTCACCCCAGGAAG	4421
Qy	130	-----ThrHi	131
Db	4422	AATCTTCCAACTGGGAGCCTGCTGCCCCACACTGGCCTCTCTCTCTCTAGACCCA	4481
Qy	131	sSerGlnAspIleGluLysLeuLysSerGlnTyrArgAlaLeuAlaArgAspSerAlaGln	151
Db	4482	CAGCCAGGACATTTAGAAGCTGAAGAGCCAGTACCGAGCTCTGGCACGGGACAGTGCCCA	4541
Qy	151	nalAlaLysArgLysTyrGlnGluAlaSerLys	161
Db	4542	AGCCAAAGCGCAAGTACCAGGAGGCCAGAAAGGTTCTGTGGTCTTCCCTTGTGGCAGGGAG	4601
Qy	161	-----	161
Db	4602	GGNATCCGAAGCCAGTGTGACTGCTGCTTGGGTACCCAGAGAGTGGGGGCTGCTGGGC	4661

Db 6822 GGGCAGGAGGATCTCGCAGGAATACCTGGAGATTAGCAGGCTGGTGCGAGTGGT 6881
Qy 241 lValAlaIleHieArgGluMetAlaAlaAlaAlaAlaAArgIleGlnProGluAlaGluTy 261
Db 6882 GGTGGCCATTACCGGGAGATGGCTGCAGCTGTGCTGCCGATCCAGGCTGAGGCTGAGTA 6941
Qy 261 rGlnGlyPheLeuArgGlnTyr-Gly----- 269
Db 6942 CCAAGGCTTCCTCGACAGATAGGGTAAGGCCCGCTCCTTGTCTCCTGTGGGCCCGAGGGCT 7001
Qy 270 -----SerAlaProAspValProProC 277
Db 7002 GCTGGCCCTGCCACTGACGGGGCGCTGTCCCCACAGGTCGACCTGACGTCCACCCCT 7061
Qy 277 ysValThrPheAspGluSerLeuLeuGluGluGluProLeuGluProGlyGluLeuG 297
Db 7062 GTGTACGTTTCGATGAGTCACTGTCTTGAGGAGGGTGAACCGCTGGAGCCTGGGAGCTCC 7121
Qy 297 lnLeuAenGluLeuThrValGluSerValGlnHisThrLeu----- 310
Db 7122 AGCTGAACGAGCTGACTGTGGAGAGCGTGACGACACACGTG- GGTGGTGGCTTTTGCACTG 7180
Qy 310 ----- 310
Db 7181 GGCTGGCGGGGCTCCAGCAGACACGAGTGTATTATAGGACAGGGCTAGGTGCTGGA 7240
Qy 310 ----- 310
Db 7241 GACTGTCCACAGAGCTGTACCAAGGTGGCGGGCTTGCTTGCTCTACAGGGATGCAC 7300
Qy 310 ----- 310
Db 7301 TGGACCTGGGTTGAGGGGCGAGGAGGCTCGGTCTTAATGCTGCCCTTCTCTTGGGTGCA 7360
Qy 311 -----ThrSerValThrAspGluLeuAlaValAlaThrGluMetValPheArgArgGlnG 329
Db 7361 GGCTGACCTCAGTGACAGATGAGCTGGCTGTGGCCACCGAGATGGTGTTCAGGCGGGCAGG 7420
Qy 329 luMetValThrGlnLeuGlnGlnGluLeuArgAenGluGluAunThrHisProArgG 349
Db 7421 AGATGGTTACGAGCTGCACAGGAGCTCCGGAATGAAGAGGAGAACACCCACCCCGGG 7480
Qy 349 lu----- 349
Db 7481 AGCGGTGAGTGGGGCCCTGCTGCAGCAGCCTCCTGGGGCCTCCCTCCTCTACCTACCC 7540
Qy 349 ----- 349
Db 7541 TAACTGTCTGTGCTAGCCCGCGCAGACCGAGCCCTTATTCTTCATCCACCCCTCCACCC 7600
Qy 350 -----ArgValGlnLeuLeuGlyLysArgGlnValLeuGlnGluAlaLeuGln 365
Db 7601 GCCCTGCCCTGCAGGGTGCAGCTGTGGGCAAGGCAAGTGTGCAAGAGCACTGCAG 7660
Qy 366 GlyLeuGlnValAlaLeuCysSerGlnAlaLysLeuGlnAlaGlnGlnGlnLeuLeuGln 385
Db 7661 GGGCTGCAGGTAGCGCTGTGCAGCAGGCCCAAGCTGCAGGCCCCAGCAGGAGTGTCTGAG 7720
Qy 386 ThrLysLeuGluHisLeuGlyProGlyGluProProValLeuLeuGlnAspAsp 405
Db 7721 ACCAAGCTGAGACCTTGGGGCCCGGCGAGCCCCCGCTGTGTCTCTCTGCGAGATGAC 7780
Qy 406 ArghisSerThrSerSerSer----- 412
Db 7781 GGCCACTCCAGCTGCTCTCTC- GGTGAGCTGCCCCATCCGGCGGCGCTGCCCGCCACCGGC 7839
Qy 412 ----- 412
Db 7840 CTGCCACCTGGGGCTGGCTCCTCATTTTGGCCCTCCCTCCTTAAGCTGGCCACCC 7899
Qy 413 -----GluGlnGluArgGluGlyArgThrProThrLeu 424
Db 7900 GCTGACGTCTGTCCCTGGCCCTCAGGAGCAGGAGGAGGGGGGAGGAGACACCCACGCTG 7959

Qy 425 GluileLeuLysSerHisIleSerGlyIlePheArgProLysPheSer----- 440
Db 7960 GAGATCTTTAAGAGCCACATCTCAGGAATCTTCGCGCCCAAGTTCTCGTGAGTGGCGCC 8019
Qy 440 ----- 440
Db 8020 CAGCCTGGGGCCCCCTACTGTTGTGTTTCGAGTAAATCACTGGGATGTCCTAGAGAGGA 8079
Qy 440 ----- 440
Db 8080 GGCTCTGCCCCAGGCTGTTGTATTGGGAAGTTCCTCTCTTCCCTGGGATTCAGGCTGCA 8139
Qy 440 ----- 440
Db 8140 GATGTCCCCAGACAGCCTGCCCCCTGTGACCCCTCCTTTTCCATCGCCCCCAGTGTGCTAAAGG 8199
Qy 440 ----- 440
Db 8200 GACCAGAACTCGACTATTTCATGAGTCTCTCCTGTTCAGGAGCGGTTGGGGCCCTGTG 8259
Qy 440 ----- 440
Db 8260 GCCTGGAGGAGGAGGACCAGCTTGGTTGGGGTCTTCTGCTCGCTTCCCTTCCAG 8319
Qy 440 ----- 440
Db 8320 CTCTGCCAGCGTGAGCCTGGGCCAGTCCAGTCCCACTCCAGGGGCCCTGTGATGGCTC 8379
Qy 440 ----- 440
Db 8380 TGCATCCCACTCCATGTTGTAAAGGCTGAGGCATATAGGGGGGAGAGAGACCCCG 8439
Qy 440 ----- 440
Db 8440 GCTGCCCCCAGCGCCTTTCACAAAGGTGGTTAAGTGACTCTCTCTCGATCCTCCCTTGC 8499
Qy 440 ----- 440
Db 8500 CCAGCTCCCTCCACCGCTGAGCTCATTCGGAGGTGCAGAAAGCCCTGCATGAGCAGCT 8559
Qy 440 ----- 440
Db 8560 GTGGTACACGGGGCCATCCCGAGGCGAGAGTGGGTGAGTCTGTGTGCTGTGGATGG 8619
Qy 440 ----- 440
Db 8620 CTTCTGGTGGGAGGAGCCAGGCAAGCAGGAGTACGTCTGTGTGTGTGGATGG 8679
Qy 440 ----- 440
Db 8680 TCTGCCCCGCACTTCATCATCCAGTCTTGGATGTGAGTGGGGCTGGGACCCGAGCCTT 8739
Qy 440 ----- 440
Db 8740 CCAGGCTCACTCTTCCCTCCTTCCCTTCCCAAGGAAATGGCCCTTTCAGGGTAGGG 8799
Qy 440 ----- 440
Db 8800 GGTAGTGCAGGCTCTTGGATGCTCCTAGCAGGSGTGGCTGGAAGGGGCCACAGAGAC 8859
Qy 440 ----- 440
Db 8860 CACCTGTCCCTGCAACAAATAAGAGGCTTAAGTGTGAGTCTCTCCCTGTGGGGCAGCA 8919
Qy 440 ----- 440
Db 8920 GGATGTATGTGCCATCAGATGGCATCTTTTCTGAGGATCTCTCTGCCCCCTGTCTGGG 8979
Qy 440 ----- 440
Db 8980 CAGGCCCTTTCTCCCTGTGTCTCTCTTTCCTCCCTCCAGGGGCTCACGCCCCCTCAGA 9039

QY 441 -----AsnLeuTyrArgLeuGluGlyGlu 448
Db 9040 ATGGAGGCTGCTGACCCCGGGTCCCTGCCCTGCAGAACTGTACCGACTGGAGGGGAA 9099
QY 449 GlyPheProSerIleProLeuLeuIleAspHisLeuLeuSerThrGlnGlnProLeuThr 468
Db 9100 GGCTTTCCTAGCATTCCTTTGGCTCATCGACACCTACTGAGCACCAGAGCCCTCACC 9159
QY 469 LysGlySerGlyValValLeuHisArgAlaValProIys----- 481
Db 9160 AAGAAAGAGTGGTGTGTGCTGCGCAGGGCTGTGCCCAAGGTGAGCTGCACCCAGCCTGG 9219
QY 481 ----- 481
Db 9220 CCGATGCCACCTGTGGCAGGGCTTGGGAGTGTGGGTGCAGGCCACCCAGCGTCTGAGCA 9279
QY 481 ----- 481
Db 9280 GAAAGGGCTTTCCAGGGCCCTCCGTCTACATACAAGATGCAGAGTGAGTGACCCCTCAGGGC 9339
QY 481 ----- 481
Db 9340 CAGCCTTGCTCTAGGTTTGAATGTGAGGCCCACTCCTATGCCATGGGCTGTACACACCA 9399
QY 481 ----- 481
Db 9400 GGTGGTGTCTTACCTGGTCAGGGCACCTGCGCTGGACCCCGTAGTCTCATCTCAGTGTGCTCC 9459
QY 481 ----- 481
Db 9460 CCAGTGGTCCACCCCTGGTGCATATGAGGGCGGCCAAAAATGGAGGACACAGCCCTT 9519
QY 481 ----- 481
Db 9520 CTAAGGCCCCAGCACCCCTTTTCTTCAGACTTCTGATCCCTGTCTCTCTTCCCCAG 9579
QY 482 AspLysTrpValLeuAsnHisGluAspLeuValLeuGlyGluGlnIleGlyArg----- 499
Db 9580 GACAAGTGGTGTCTGAACCATGAGGACCTGGTGTGGGTGAGCAGATTTGGACG-GGTGAG 9638
QY 499 ----- 499
Db 9639 TGGCCCTCTGTGGCCCTCTTGTGTGGTGGGACCTTCTCTGAGTCTGGCGCTGGGGCCCT 9698
QY 499 ----- 499
Db 9699 GCCCTACCAACCAGAAACCTCCCTGCCCATCTGATTCCCCACTTGTATCCCGACTCCCT 9758
QY 499 ----- 499
Db 9759 GCCCAGCCCCACACACACCATCTCCAGGAAACGGGACAGTACTTACGCTGAAAACTC 9818
QY 499 ----- 499
Db 9819 CCAGCAGACAGCTCTGCCAGCACCTTGACCTCATCACCCCAACCCAGGCCGCCCCCATCG 9878
QY 499 ----- 499
Db 9879 AGCTCTTGTGTGACGAGGAGACACCTGTACTGTAGCCATAGATACCTGTTTAG 9938
QY 499 ----- 499
Db 9939 GGAAGAAGTCACTGTCTCTAAAAATCAGAAATGCTTTTCAAACCAAGGAGGAGTATTTT 9998
QY 499 ----- 499
Db 9999 GGATTTCCATGTCATCTCTCAGGAAGGGTGGCACATCGGAGGCAACTTTCCTGCTGCTG 10058
QY 499 ----- 499
Db 10059 CCCCATGTGCTCTTAGGTTCCCGCAGCGGGTCAAACTCCACAGAGACCTGGGTGGAGG 10118
QY 499 ----- 499

Db 10119 GGTCCGAACACGGGGGGCCCTCACCCAGGGGTAGGAAGCAGAAATGGTAGAAGCGGAGA 10178
QY 500 -----GlyAsnPhe 502
Db 10179 AGAGAACTGCGGGACTGGGAAGCGCGTGTAGGAGCCCAAGACCCGTTTCAGGGGACITTT 10238
QY 503 GlyGluValPheSerGlyArgLeuArgAlaAspAsnThrLeuValAlaValLysSerCys 522
Db 10239 GCGAAGTGTTCAGCGGACGCTGCGAGCCGACACACCCCTGGTGGCGGTGAAGTCTTGT 10298
QY 523 ArgGluThrLeuProAspLeuLysAlaLysPheLeuGlnGluAla----- 538
Db 10299 CGAGAGAGCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGCGAGTGGGTGATA 10358
QY 538 ----- 538
Db 10359 AACTAATGATCACCACGGGTCCCGCATACACAGAGGTTACTGTGCATGGCAGCTGTGAA 10418
QY 538 ----- 538
Db 10419 GTGCTTGACCACCGTGGTGTGTTTGTCTCGAGGCCCCCATTTGCGGGTAGTACCCCC 10478
QY 538 ----- 538
Db 10479 TTATAGTCGGAAGGTAGAGGCTCCCCAGGTACACGTCCGGGTCTGTGCGCTTGA 10538
QY 538 ----- 538
Db 10539 GSCCAAGCTCTTCTCCCATCATCTCCCTGGGGGCCCTGGGAGCGGGCTGGCCAGGTAG 10598
QY 539 -----ArgIleLeuLysGlnTyrSerHisProAsnIleValAr 551
Db 10599 ATCTCTGAGCAGCAGTGCCCTCCAGGATCTGAAGCAGTACAGCCACCCCAACATCGTGG 10658
QY 551 gLeuIleGlyValCysThrGlnLysGlnProIleTyrIleValMetGluLeuValGln-- 570
Db 10659 TCTCATTTGTGTGTCACCCAGAGCAGCCCATCTACATCTGTCATGGAGCTTGTGCAGGG 10718
QY 570 ----- 570
Db 10719 TGAGCGGGCGCTGAGCTCCAGGTAGGGCGCGAGCCCTGTCAGTGGCAGCCTTACC 10778
QY 571 -----GlyGlyAspPheLeuThrPheLeuAr 579
Db 10779 TCAGGAGGCTCAGCAGGGGTCTCTCCACCTGCAGGGGGCGACTTCTCTGACCTCTCCG 10838
QY 579 gThrGluGlyAlaArgLeuArgValLysThrLeuLeuGlnMetValGlyAspAlaAla 599
Db 10839 CACGAGGGGGCGCGCTCGGGGTGAAGACTCTGTGTCAGATGGTGGGGGATGCAGCTGC 10898
QY 599 aGlyMetGluTyrLeuGluSerLysCysCysIleHisArg----- 612
Db 10899 TGGCATGGAGTACTGGAGAGCAAGTGTGTCATCCACCG-GTGAGTGGGGGTGGCCACG 10957
QY 612 ----- 612
Db 10958 GSCCTTGCCAAACACCCCGACAGAGTCAAGAGGTACTATACCCCTAGGGGCCCCCGCT 11017
QY 612 ----- 612
Db 11018 GGACCATCAGGCACTAGCTCCAGAGGGGAGTTGGCTCTGTGGTAGACAGGGGTGCCCA 11077
QY 612 ----- 612
Db 11078 GGSCCGGAGCAGCTTTTGTCTTGGCTTTCTAGAGTGTTCAGCCAGGCGCTGGCGAGGC 11137
QY 613 -----AspLeuAlaAlaArgAsnCys 619
Db 11138 GACTGTTGGCCAAATAGCCCCCTGCTGTCTCACCAGGGACCTGGCTGCTCGAACTG 11197
QY 619 sLeuValThrGluLysAsnValLeuLysIleSerAspPheGlyMetSerArgGluAla 639
|||||


```
Db 11198 CCTGGTACAGAGAAATGCTCTGAAGATCAGTGACTTTGGGATGTCCCGAGAGGAAGC 11257
Qy 639 aAspGlyValTyrAlaAlaSerGlyGlyLeuArgGlnValProVallysthrAlaPr 659
Db 11258 CGATGGGCTCTATGCAGCCTCAGGGGCTCAGACAAGTCCCGCTGAAGTGGACCGCAC 11317
Qy 659 oGluAlaLeuAsnTyr----- 664
Db 11318 TGAGGCCCTTAACACGTACTAGTCCCTGTCTACCCCTGGACTCCATGGCCAGAGGCCA 11377
Qy 664 ----- 664
Db 11378 GGCCTGGGTCTGCGGCTGCTCGCCCTGCGCCCGAGGAGGTGCACCTACGCTGCCTC 11437
Qy 665 -----GlyArgTyrSerSerGluSerAspValTyrPheGlyI 678
Db 11438 ACCTCTCGCCTCTCTGCGGCGCTACTCTCCGAAAGCGACGTGTGGAGCTTTGGCA 11497
Qy 678 leLeuLeuTyrGluThrPheSerLeuGlyAlaSerProTyrProAsnLeuSerHdnG 698
Db 11498 TCTTGCTCTGGGAGACCTTCAGCCTGGGGGCTCCCGCTATCCCAACCTCAGCAATCAGC 11557
Qy 698 lnThrArgGluPheValGluLys----- 705
Db 11558 AGACACGGAGTTTGTGGAGAAGGTAAAGCAACCTGTGATGACAGAGCCCTCAGGCTGCA 11617
Qy 705 ----- 705
Db 11618 CCCTCTTCAGATGCTCCAGCGGACTCTTCTTAACCTCCCTTAATGCCAACCTTCCACCA 11677
Qy 705 ----- 705
Db 11678 GGCAGATAAGATAAACCTGCGCAGTTGCTCAGCGCTGTCTATCCAGCACTTTTGGAGGC 11737
Qy 705 ----- 705
Db 11738 TGAGCTGGTGGATCACTTTGAGCCAGGAGTTCAAGATCAGCTTGGACAACACAGTAAA 11797
Qy 705 ----- 705
Db 11798 CTCCATCTGTACAAAAAATACAAAAATAGACTGGGACGGTGGCTCACACCTGTAATCCC 11857
Qy 705 ----- 705
Db 11858 AGCACTTTGGAGGCCGAGGAGGTGGATCACCTGTGTCAGGAGTTTGGACAGCCAG 11917
Qy 705 ----- 705
Db 11918 ACCAATGTGTGAACCCCATCTCTACTAAAAATACAAAAAATTAGCCAGGCGATGGTGCA 11977
Qy 705 ----- 705
Db 11978 CGTGCCTGTAATCCAGCTACTTTGGAGGCTGAGTGGGAGAAATTGCTTGAACCCAGGAG 12037
Qy 705 ----- 705
Db 12038 GCGGAGGCTGAGTGAGCGGAGATTGTGCCACTGCACCTCCAGCCTGGCGCAGAGAGTGA 12097
Qy 705 ----- 705
Db 12098 AACTCCATCTCAAAAAAACCAAAAAACAATAAAAAATTAAGTGGGTGTGGTGAC 12157
Qy 705 ----- 705
Db 12158 ATGCGCCTGTAGTCCCTCTACTCGGAGGCTGAGTGGGAGGATCACTGGAGCCCGGA 12217
Qy 705 ----- 705
Db 12218 GGTGGAGTTGCACTGAGCTGAGATCATGTCACCTGCACCCCAACCTGGTGACAGAGAGA 12277
Qy 705 ----- 705
Db 12278 GAGAGAGACCTTGACTCGAAAAAGAAAAAACCTGGGGCGAGTGGCTCAGCCCTGTAATT 12337

Qy 705 ----- 705
Db 12338 TCAACATTTTGGGAGGCTGAGGAAGTGGATCACTTGAGTCTAGGAGTTTGACACTAGCC 12397
Qy 705 ----- 705
Db 12398 TGCCCAACATGGCAAAACCTGTCTCTACTATAAAATACAAAAAATTAGCGAGGTGTAGTG 12457
Qy 705 ----- 705
Db 12458 TGCAGCCTGTAATCCAGCTACTTTGGAGGCTGAGGCACAGAATCGCTTGAACCTGGG 12517
Qy 705 ----- 705
Db 12518 AGGTGAGGTTTGAGTGAGCTGAGATCACACCACTGCATTCAGCGGTGGGTGACAGAGCA 12577
Qy 705 ----- 705
Db 12578 AGACTCCATCTCAGAAAAAAGAAAAAATAAGAAATATCCCTGTAGTACTACTAGTG 12637
Qy 705 ----- 705
Db 12638 AGCACCTGGTGTGTGTAGTGCATGTATTTTCATTTGCTCATCTACATGTGTGGTA 12697
Qy 705 ----- 705
Db 12698 GGGATTAATATGTCCCTTTCTCAGATGGAACACAGCTGGCAGAGGGGACACAGCTAGC 12757
Qy 705 ----- 705
Db 12758 ACCTGGTAGGATTAGGATCAGAAAGCCAGGCTCTTTTCTCTTTGGGCCCTTTGGTGGAGAA 12817
Qy 705 ----- 705
Db 12818 CAGTGATCCTTCAGAACAGTGCATCTTAAGCAGCTCCTATGCTATGCTATGCTATCCCCCAG 12877
Qy 705 ----- 705
Db 12878 AGTCTGCCGAGGACCTCAAACTCCCTCATGCTGTGTGCTGTGCTCTCTCTCACA 12937
Qy 706 GlyGlyArgLeuProCysProGluLeuCysProAspAlaValPheArgLeuMetGluGln 725
Db 12938 GGGGGCGCTGTGCCCTGCCAGAGCTGTGTCTGTATGCCGTGTTCAGGCTCATGGAGCAG 12997
Qy 726 CysTrpAlaTyrGluProGlyGlnArgProSerPheSerThrIleTyrGlnGluLeuGln 745
Db 12998 TGCTGGCCCTATGAGCTGGGCGAGCGGCCAGCTTCAGCACCATCTTACCAGGAGCTGCAG 13057
Qy 746 SerIleArgLysArgHisArg 752
Db 13058 AGCATCCGAAAGCGGCATCGG 13078

RESULT 6
US-10-887-553A-240
; Sequence 240, Application US/10887553A
; Publication No. US20050085436A1
; GENERAL INFORMATION:
; APPLICANT: Garza, Dan
; APPLICANT: Li, Hao
; TITLE OF INVENTION: Method to treat conditions associated
; FILE OF INVENTION: with insulin signalling dysregulation
; FILE REFERENCE: 4-33262
; CURRENT APPLICATION NUMBER: US/10/887,553A
; PRIOR FILING DATE: 2004-07-08
; PRIOR APPLICATION NUMBER: 60/485,883
; NUMBER OF SEQ ID NOS: 1208
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 240
; LENGTH: 2950
; TYPE: DNA
; ORGANISM: human
```

US-10-887-553A-240

Alignment Scores:

Pred. No.: 1,1e-165 Length: 2950
Score: 1853.00 Matches: 376
Percent Similarity: 63.60% Conservative: 150
Best Local Similarity: 45.47% Mismatches: 217
Indels: 84
Query Match: 47.77%
DB: 21 Gaps: 9

US-10-660-763-2 (1-752) x US-10-887-553A-240 (1-2950)

QY 1 MetGlyPheSerSerGluLeuLeuCysSerProGlnGlyHisGlyValLeuGlnGlnMetGln 20
DB 385 ATGGGGTTGGAGTACCTG-----AAGAAATTCATGAGCAGTGTAAATTTGCAA 438
QY 21 GluAlaGluLeuArgLeuGluGlyMetArgLysTrpMetAlaGlnArgValLysSer 40
DB 439 GACTGGGAATTTACGGTTACTGGAAACAGTAAGAAATTTATGGCCCTGAGAAATAAAGT 498
QY 41 AspArgGluTyrAlaGlyLeuLeuHisHisMetSerLeuGlnAspSerGlyGlyGlnSer 60
DB 499 GATAAAGAAATGATCTACTTCTACAGAACCTTTGTAATCAAGTTGATAAGGAAGTACT 558
QY 61 ArgAlaIleSerProAspSerProIleSerGlnSerTrpAlaGluIleThrSerGlnThr 80
DB 559 GTCCAAATGAATATATGTCAGCAACGATCCAAAGTCTTGGCTACTTATGATTCAGCAGACA 618
QY 81 GluGlyLeuSerArgLeuLeuGlnHisAlaGluAspLeuAsnSerGlyProLeuSer 100
DB 619 GAACAACCTTAGTAGGATAATGAAGACACATGCAGAGACTTGAACCTCGGACCTTTACAC 678
QY 101 LysLeuSerLeuLeuLeuArgGluArgGlnGlnLeuArgLysThrTyrSerGluGlnTrp 120
DB 679 AGGCTCACCATGATTAAGGACACAGCAGCAGGTGAAGAAAGTTACATAGTGTTCAT 738
QY 121 GlnGlnLeuGlnGlnGluLeuThrLysThrHisSerGlnAspIleGluLysLeuLysSer 140
DB 739 CAGCAGATAGAGGACGAGATGATCAAGGTTACCAAAACAGAAATTTGGAGAAGTTAAATGC 798
QY 141 GlnTyrArgAlaLeuAlaArgAspSerAlaGlnAlaLysArgLysTyrGlnGluAla--- 159
DB 799 AGCTATAGACAATTAATAAAGAAATGAATTTCTGCCAAAGAGAAATATAAAGAACGCTTTA 858
QY 160 SerLysAspLysAspArgAspLysAlaLysAspLysTyrValArgSerLeuTrpLysLeu 179
DB 859 GCTAAAGGAGGAGAACTGAAAGCCCAAGCAAGCATACGCAAGCCACAAATGAAACTT 918
QY 180 PheAlaHisAsnArgTyrValLeuGlyValArgAlaAlaGlnLeuHisGlnHis 199
DB 919 CATATGTTGCACAATCAGTATGATTTGGCGTTGAAAGGGGCACAGCTCCATCAGAATCAG 978
QY 200 HisHisGlnLeuLeuLeuProGlyLeuLeuArgSerLeuGlnAspLeuHisGluGluMet 219
DB 979 TATTATGATATCACACTTCCCTGCTCTGAGACTCTTACAAAGAGATCAAGAAAGAAATG 1038
QY 220 AlaCysIleLeuLysGluLeuGlnGluTyrLeuGluIleSerSerLeuValGlnAsp 239
DB 1039 ATAAAGACACTCAAGGTATATTTGATGATATACAGCCAGATAACCCAGTCTTGTGCACAG 1098
QY 240 GluValValAlaIleHisArgGluMetAlaAlaAlaAlaArgIleGlnProGluAla 259
DB 1099 GAAATAGTGAATGTCATCAAAAGAGATTCAAATGTCTGGTTGAACAGATAGATCCCTAGTACA 1158
QY 260 GluTyrGlnGlnPheLeuArgGlnTyrGlySerAlaProAspValProCysValThr 279
DB 1159 GAATACAAATAATTTATAGATGTTTCACAGAACACGGCTGTAAAGAACAGAAATAGAG 1218
QY 280 PheAspGluSerLeuLeuGluGlyGluProLeuGluProGlyGluLeuGlnLeuAsn 299
DB 1219 TTTGATACTTCTTACTGGAAGAAATGAAATCTTTCAGGCAAAATGAGATCATGTGGAAT 1278
QY 300 GluLeuThrValGluSerValGlnHisThrLeuThrSerValThrAspGluLeuAlaVal 319

DB 1279 AACTTAACAGCAGAAAGTTTGCAGTAATGTTGAAAACGTTAGCGGAAGAACTTATGCAA 1338
QY 320 AlaThrGluMetValPheArgArgGlnGlnMetValThrGlnGlnGlnGlnLeuArg 339
DB 1339 ACACAGCAGATGCTTTTAAACACAGGAGGAGCTGTTTGGAGTTTAGAGAAAGAAATGAA 1398
QY 340 AsnGluGluGlnAsnThrHisProArg---GluArgValGlnLeuLeuGlyLysArgGln 358
DB 1399 GAATCTTCTGAACCTTGAGCAAGAGTCTGATATTGTTGCTTCTGCTAAGCCAAACACAG 1458
QY 359 ValLeuGlnGlnAlaLeuGlnGlyLeuGlnValAlaLeuCysSerGlnAlaLysLeuGln 378
DB 1459 GCACCTTGAAGAACTGAAACAGTCAGCTCAGCAGCTGAGATGCATGAAGCAAGTTTCA 1518
QY 379 AlaGlnGlnGluLeuGlnThrLysLeuGluHisLeuGlyProGlyGluProProPro 398
DB 1519 GCACAGAAAGAAATTTACTAGACAAAGAGTGCAGAAATGATGGAAGAGCCACCTCCA 1578
QY 399 ValLeuLeuLeuGlnAspAspArgHisSerThrSerSerGluGlnGlnGluGly 418
DB 1579 GTAGTAAATTTATGAAGAGATGCAGATCAGTTACATCTATGAAAGAAAGAG- 1632
QY 419 GlyArgThrProThrLeuGluIleLysSerHisIleSerGlyIlePheArg---Pro 437
DB 1633 ---AGGCTATCCAAATTTGAATCTATTGCTCATTCATCAATGCTGGAATATTAGTCTCCA 1689
QY 438 Lys 438
DB 1690 AAATCTGCAGTGGGCTCTTCAGCACTTTCTGATATGATCTCCATCAGTGAGAAGCCTTGT 1749
QY 438 438
DB 1750 GCAGAACAGGACTGGTACCATGGTGCATATCCAGATAGAAAGCTCAAGAACTGTAAAA 1809
QY 438 438
DB 1810 AAACAAGGAGACTTTTGGTGCAGAGAGTCAATGGGAAACCTGGTGAATATGTCCTTCT 1869
QY 439 439
DB 1870 GTATATCTGATGGACAGAGGAGACATTTTATCATACAATATGTTGATAACATGATCGA 1929
QY 445 LeuGluGlyGluGlyPheProSerIleProLeuLeuIleAspHisLeuLeuSerThrGln 464
DB 1930 TTCGAGGGCAGCTGGGTTTCAAAACATCTCCTCAACTTATAGATCATCATACACAAAA 1989
QY 465 GlnProLeuThrLysLysSerGlyValValLeuHisArgAlaValProLysAsp---Lys 483
DB 1990 CAGGTCACTACTAAGAAATCAGGTGTGTTCTGCTGATCTTCTTAAAGCAAGAAAA 2049
QY 484 TrpValLeuAsnHisGluAspLeuValLeuGlyGluGlnIleGlyArgGlyAsnPheGly 503
DB 2050 TGGATTTCTCAGTCATCAGATGTCATATTGGGAGAAATTTACTGGGCAAGGAAATTTTGGT 2109
QY 504 GluValPheSerGlyArgLeuArgAlaAspAsnThrLeuValAlaValLysSerCysArg 523
DB 2110 GAAGTATATAAGGCGCATTAAG---GATAAACTCTGTTGCTGTTTAAACATGATAA 2166
QY 524 GluThrLeuProProAspLeuLysAlaLysPheLeuGlnGlnAlaArgIleLeuLysGln 543
DB 2167 GAAGATCTTCTCAGGAAATGAAAAATAAAATTTTACAAGAACCCAAAAATTTCTCAAGCAA 2226
QY 544 TyrSerHisProAsnIleValArgLeuIleGlyValCysThrGlnLysGlnProIleTyr 563
DB 2227 TATGATCATCCCAATATTGTCAAACTTATAGAGTTTGCACAAAGACAGACCTGTCTAC 2286
QY 564 IleValMetGluLeuValGlnGlyArgPhePheLeuThrPheLeuArgThrGlyAla 583
DB 2287 ATCATATTGAACTGGTTTTCAGGAGGTGATTCTCCTCACTTTCTGAGAAGAAAGAGAT 2346
QY 584 ArgLeuArgValLysThrLeuLeuGlnMetValGlyAspAlaAlaAlaGlyMetGluTyr 603

Db 1181 TTGTGTGCAGAGCAGCCCATCATGATTGTCATGGAATTGGTGTGCTCGTGTTCGCTTT 1240
Qy 575 euThrPheLeuArgThrGluGlyAlaArgLeuArgVallyThrLeuLeuGlnMetValG 595
Db 1241 TAACTTATTACCAAGAACTCCAATGGCTCACCACCTGCCAACAATGGCGATGTGCA 1300
Qy 595 lyAspAlaAlaGlyMetGluTyryleuGluSerlyscysCysIleHisArgAspLeuA 615
Db 1301 GAGATGGCGGCGAGGCATCGCATATCTGGAGTCCAAAACCTGCATTCATCGCATCTGG 1360
Qy 615 laAlaArgAsnCysLeuValThrGluLysAsnValLeuLysIleSerAspPheGlyMets 635
Db 1361 CGGCGCGTAATGTCGTGTGACTTGGAGCAGAGTGTGAAGATCTCCGATTTCGGAATCT 1420
Qy 635 erArgGluGluAlaAspGlyValTyzAlaAsrGlyGlyLeuArgGlnValProValL 655
Db 1421 CTCCGAGGAGAGGAA-----TATATAGTTTCCGATGCATGAAACAATACCTGTGA 1474
Qy 655 ySTrPThAlaProGluAlaLeuAsnTyryGlyArgTyrySerSerGluSerAspValTIPS 675
Db 1475 AGTGACAGCTCCCGAGGCGCTTGAATTCGGCAAGTACACTTCGTTGTGCGATGTGTGT 1534
Qy 675 erPheGlyIleLeuLeuTrpGluThrPheSerLeuGlyAlaSerProTyryProAsnLeuS 695
Db 1535 CCTATGGCATACTGATGTGGAGATCTTCTCCAGGGCGGACACACCTACTCCGGCATGA 1594
Qy 695 erAsnGlnGlnThrArgGluPheValGluLysGlyArgLeuProCysProGluLeuC 715
Db 1595 CCAACTCCAGAGCAGAGCGCATCGATACGGGATATCGTATGCCAACCGCGAAGAGCA 1654
Qy 715 ySTrAspAlaValPheArgLeuMetGluGlnCysTrpAlaTyryGluProGlyGlnArgP 735
Db 1655 CGCCGAGGAGATGTACCGATGTATGCTCCAGTCTGGGAGCGGCGGCGGATCCCGAC 1714
Qy 735 roserPheSerThrIleTyryGlnGluLeuGlnSerIle 747
Db 1715 CGCATTTTCGATGAGATCTTACAATGGTGGTGATGCATGT 1752
RESULT 8
US-09-918-995-1503
; Sequence 1503, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; NUMBER OF SEQ ID NOS: 1999-01-20
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1503
; LENGTH: 449
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(449)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-1503
Alignment Scores: 1,64e-53 Length: 449
Pred. No.: 663.00 Matches: 136
Score: 80.47% Conservatives: 0
Best Local Similarity: 80.47% Mismatches: 0
Query Match: 17.09% Indels: 33
DB: 10 Gaps: 1
US-10-660-763-2 (1-752) x US-09-918-995-1503 (1-449)

Qy 511 ArgAlaAspAsnThrLeuValAlaVallySerCysArgGluThrLeuProProAspLeu 530
Db 39 CGACCGARCAACACCTTGGTGGCGTGAAGTCTTGTGAGAGAGCGCTCCACCTGACCTC 98
Qy 531 LysAlaLysPheLeuGlnGluAlaArgIleLeuLysGlnTyrySerHisProAsnIleVal 550
Db 99 AAGCCCAAGTTTCTACAGGAAGCGAGG----- 125
Qy 551 ArgLeuIleGlyValCysThrGlnLysGlnProIleTyryIleValMetGluLeuValGln 570
Db 125 ----- 125
Qy 571 GlyGly-AspPheLeuThrPheLeuArgThrGluGlyAlaArgLeuArgVallyThrLe 590
Db 126 ---GGCGACTTCTGACCTTCTCCGACGAGGGGGCGCGCTGCGGGTGAAGACTCT 182
Qy 590 uLeuGlnMetValGlyAspAlaAlaAlaGlyMetGluTyryleuGluSerlyscysCysI 610
Db 183 GCTGCAGATGGTGGGGATGCAGCTGCTGGCATGGAGTACCTGGAGAGCAAGTCTGTCAT 242
Qy 610 eHisArgAspLeuAlaAlaArgAsnCysLeuValThrGluLysAsnValLeuLysIleSe 630
Db 243 CCACCGGAGCTTGGCTGCTCGGAAGTGCCTGTCACAGAGAAGAAATGTCTTGAAGATCAG 302
Qy 630 rAspPheGlyMetSerArgGluGluAlaAspGlyValTyryAlaAlaSerGlyGlyLeuAr 650
Db 303 TGACTTTGGGATGTCCCGAGAGGAGCGCATGGGGTCTATGCAGCCTCAGGGGGCTCAG 362
Qy 650 gGlnValProVallySerTrpThrAlaProGluAlaLeuAsnTyryGlyArgTyrySerSer 670
Db 363 ACNAGTCCCGTGAAGTGGACGCGACCTTACGAGCCCTTAACCTACGGCGCTACTCTCTCGA 422
Qy 670 uSerAspValTrpSerPheGlyIle 678
Db 423 AAGCGACGTGTGGAGCTTTGGCATC 447
RESULT 9
US-10-204-041-3
; Sequence 3, Application US/10204041
; Publication No. US20030176443A1
; GENERAL INFORMATION:
; APPLICANT: STEIN-GERLACH, MATTHIAS
; APPLICANT: SALASSIDIS, KONSTADINOS
; APPLICANT: BACHER, GERALD
; APPLICANT: MULLER, STEFAN
; TITLE OF INVENTION: Pyridylpyrimidine Derivatives as Effective Compounds Against Prion Diseases
; TITLE OF INVENTION: Infections and Prion Diseases
; FILE REFERENCE: AXM-007.1P US
; CURRENT APPLICATION NUMBER: US/10/204,041
; PRIOR FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: EP 01111858.5
; PRIOR FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: PCT/EP02/05420
; PRIOR FILING DATE: 2002-05-16
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 3840
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-204-041-3
Alignment Scores: 1,58e-48 Length: 3840
Pred. No.: 624.50 Matches: 138
Score: 53.79% Conservatives: 68
Best Local Similarity: 36.03% Mismatches: 128
Query Match: 16.10% Indels: 49
DB: 16 Gaps: 10
US-10-660-763-2 (1-752) x US-10-204-041-3 (1-3840)
Qy 405 AspArgHisSerThrSerSerSerGluGlnGluArgGlyGlyArgThrProThrLeu 424

```
Db 731 GAGAAACACTCTCTGGTACCATTGGCGCTGTGTCCCGCAATGCCGCTGAGTATCCG----- 784
Qy 425 GluileuLysSerHisIleSerGlyIlePheArgProLysPheSer----- 440
Db 785 -----CTGAGCAGCGGGATCAATGGCAGCTTCTTGGTGGTGAGAGTGAGAGCAGTCCT 838
Qy 440 ----- 440
Db 839 AGCCAGAGTCCATCTCGCTGAGATACGAAGGAGGGGTGTACCATTACAGGATCAACACT 898
Qy 441 -----AsnLeuTyrArgLeuGluGlyGluGlyPheProSerIleProLeuLeu 456
Db 899 CTTTCTGATGCAAGCTCTACGTCTCTCCGAGAGCCGCTTCAACACCCCTGGCGGAGTTG 958
Qy 457 IleAspHis-----LeuLeuSerThr-----GlnGlnProLeuThr 468
Db 959 GTTCATCATCATCAACGGTGGCCGCGGCTCATCACAGCTCCATTCACAGCCCCA 1018
Qy 469 LysLysSerGlyValValLeuHisArgAlaValProLys---AspLysTrpValLeuAsn 487
Db 1019 AAGCGCAACAGCCACTGTCTATGGTGTGTCTCCCGCAACTACGACAAAGTGGAGATGAA 1078
Qy 488 HisGluAspLeuValLeuGlyGluGlnIleGlyArgAsnPheGlyGluValPheSer 507
Db 1079 CGCAGGACATCACCATGAAGCACAAGCTGGCGGGGCCAGTACGGGGAGGTGTACGAG 1138
Qy 508 GlyArgLeuArgAlaAspAsnThrLeuValAlaValLysSerCysArgGlu---ThrLeu 526
Db 1139 GCGTGTGGAGAATACAGCTCAGCGTGGCGCTGAAGACCTTGAAGGAGGACCATCATG 1198
Qy 527 ProProAspLeuLysAlaLysPheLeuGlnGluAlaArgIleLeuLysGlnTyrSerHis 546
Db 1199 GAGGTGGAA-----GAGTCTTCAAAAGAGCTGCAGTCAATGAAGAGATCAAAAC 1249
Qy 547 ProAsnIleValArgLeuIleGlyValCysThrGlnLysGlnProIleTyrIleValMet 566
Db 1250 CCTAACCTAGTGCAGCTCTTGGGGTGTGCACCGGAGCCCGCTTCTATATCATCACT 1309
Qy 567 GluLeuValGlnGlyArgPheLeuThrPheLeuArgThrGluGlyAlaArgLeuArg 586
Db 1310 GAGTTCATGACCTACGGGACCTCTGGACTACTCTGAGG---GAGTGCACCGGACGAG 1366
Qy 587 ValLys-----ThrLeuLeuGlnMetValGlyAspAlaAlaGlyMetGluTyrLeu 604
Db 1367 GTGAACGCGGTGTGTGTATATGCGCACTCAGATCTCGTCAGCCATGGAGTACCTA 1426
Qy 605 GluSerLysCysCysIleHisArgAspLeuAlaAlaArgAsnCysLeuValThrGluLys 624
Db 1427 GAGAAGAAAACTTCATCCACAGAGATCTTGCTGCCCGAACTGCCGTGGTAGGGGAGAAC 1486
Qy 625 AsnValLeuLysIleSerAspPheGlyMetSerArgGluGluAlaAspGlyValTyrAla 644
Db 1487 CACTTGTGAGGTAGTGTATTTGGCTGAGCAGGTGTGATGACAGGGGACACCTACACA 1546
Qy 645 AlaSerGlyGlyLeuArgGlnValProValLysTrpThrAlaProGluAlaLeuAsnTyr 664
Db 1547 GCCCATGTGGAGCAAG---TTCCCATCAATGGACTGCACCCGAGAGCTGGCCTAC 1603
Qy 665 GlyArgTyrSerSerGluSerAspValTrpSerPheGlyIleLeuLeuTrpGluThrPhe 684
Db 1604 AACAAGTTCTCCATCAAGTCCGAGCTCTGGGCAATTTGGAGTATTTGGTGGAAATTTGCT 1663
Qy 685 SerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnGlnThrArgGluPheValGlu 704
Db 1664 ACCTATGGCATGTCCCTTACCCGGGAATTGACCGTTCCCGAGGTGTATGACTCTCTAGAG 1723
Qy 705 LysGlyGlyArgLeuProCysProGluLeuCysProAspAlaValPheArgLeuMetGlu 724
Db 1724 AAGGACTACCGCATGACGAAGCGCCAGAGGCTGCCAGAGAGGCTTATGAACCTCATGCGA 1783
Qy 725 GlnCysTrpAlaTyrGluProGlyGlnArgProSerPheSerThrIleTyrGlnGluLeu 744
```

```
Db 1784 GCATGTTGGCAGTGGAAATCCCTCTGACCGGCCCTCTCTTCTGTAATCCACCAAGCCTTT 1843
Qy 745 GlnSerIle 747
Db 1844 GAAACAATG 1852

RESULT 10
US-10-717-597-234
; Sequence 234, Application US/10717597
; Publication No. US20040110221A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Burczynski, Michael E.
; APPLICANT: Twine, Natalie C.
; APPLICANT: Dörner, Andrew J.
; APPLICANT: Trepicchio, William L.
; APPLICANT: Slonim, Donna K.
; APPLICANT: Stover, Jennifer A.
; TITLE OF INVENTION: METHODS FOR DIAGNOSING RCC AND OTHER SOLID TUMORS
; FILE REFERENCE: AM101080L
; CURRENT APPLICATION NUMBER: US/10/717,597
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 60/459,782
; PRIOR FILING DATE: 2003-04-03
; PRIOR APPLICATION NUMBER: US 60/427,982
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 4904
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 234
; LENGTH: 3840
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-717-597-234

Alignment Scores:
Pred. No.: 1,58e-48 Length: 3840
Score: 624.50 Matches: 138
Percent Similarity: 53.79% Conservative: 68
Best Local Similarity: 36.03% Mismatches: 128
Query Match: 16.10% Indels: 49
DB: 19 Gaps: 10

US-10-660-763-2 (1-752) x US-10-717-597-234 (1-3840)
Qy 405 AspArgHisSerThrSerSerGluGlnArgGluGlyArgThrProThrLeu 424
Db 731 GAGAAACACTCTCTGGTACCATGGCGCTGTGTCCCGCAATGCCGCTGAGTATCCG----- 784
Qy 425 GluileuLysSerHisIleSerGlyIlePheArgProLysPheSer----- 440
Db 785 -----CTGAGCAGCGGGATCAATGGCAGCTTCTTGGTGGTGAGAGTGAGAGCAGTCCT 838
Qy 440 ----- 440
Db 839 AGCCAGAGTCCATCTCGCTGAGATACGAAGGAGGGGTGTACCATTACAGGATCAACACT 898
Qy 441 -----AsnLeuTyrArgLeuGluGlyGluGlyPheProSerIleProLeuLeu 456
Db 899 CTTTCTGATGCAAGCTCTACGTCTCTCCGAGAGCCGCTTCAACACCCCTGGCGGAGTTG 958
Qy 457 IleAspHis-----LeuLeuSerThr-----GlnGlnProLeuThr 468
Db 959 GTTCATCATCATCAACGGTGGCGGCTCATCACAGCTCCATTCACAGCCCCA 1018
Qy 469 LysLysSerGlyValValLeuHisArgAlaValProLys---AspLysTrpValLeuAsn 487
Db 1019 AAGCGCAACAGCCACTGTGTATGGTGTGTCTCCCGCAACTACGACAAAGTGGAGATGAA 1078
Qy 488 HisGluAspLeuValLeuGlyGluGlnIleGlyArgAsnPheGlyGluValPheSer 507
Db 1079 CGCAGGACATCACCATGAAGCACAAGCTGGCGGGGCCAGTACGGGGAGGTGTACGAG 1138
Qy 508 GlyArgLeuArgAlaAspAsnThrLeuValAlaValLysSerCysArgGlu---ThrLeu 526
```

Alignment Scores:		1,59e-48	Length:	3840
Pred. No.:	Score:	624.50	Matches:	138
Percent Similarity:		53.79%	Conservative:	68
Best Local Similarity:		36.03%	Mismatches:	128
Query Match:		16.10%	Indels:	49
DB:		19	Gaps:	10
US-10-660-763-2 (1-752) x US-10-802-432-26 (1-3840)				
QY	405	AspArgHisSerThrSerSerSerGluGlnGluArgGluGlyArgThrProThrLeu	424	
DB	731	GAGAAACATCTCTGGTACCATGGGCTGTGTCCTCCCAATGCCGTGAGTATCCG	784	
QY	425	GluIleLeuLysSerHisIleSerGlyIlePheArgProLysPheSer	440	
DB	785	CTGAGCAGCGGGATCAATGGCAGCTTCTTGGTGGGTGAGAGTGGAGCAGTCT	838	
QY	440		440	
DB	839	AGCCAGAGGTCCATCTCGCTGAGATACGAGGAGGGTGTACATTACAGGATCAACT	898	
QY	441	AsnLeuTyrArgLeuGluGlyGluGlyPheProSerIleProLeuLeu	456	
DB	899	GCTTCTGATGGCAAGCTCTACGCTCTCTCCGAGAGCGGCTTCAACACCCCTGCGGAGTTG	958	
QY	457	IleAspHis	468	
DB	959	GTTCATCATCATTCACAGCGTGGCGAGCGGCTCATCACACGCTCCATTATCGAGCCCA	1018	
QY	469	LysLysSerGlyValValLeuHisArgAlaValProLys	487	
DB	1019	AAGCGCAACAGCCACTGTCTATGGTGTGTGCCCACTACGACAGTGGGAGATGGAA	1078	
QY	488	HisGluAspLeuValLeuGlyGluGlnIleGlyArgGlyAsnPheGlyGluValPheSer	507	
DB	1079	CGCAGGACATCACCATGAAGCACAAGCTGGCGGGGCCAGTAGTACGGGAGGTGTACGAG	1138	
QY	508	GlyArgLeuArgAlaAspAsnThrLeuValAlaValLysSerCysArgGlu	526	
DB	1139	GGCGTGTGGAAGAAATACAGCTGACGCTGACGGTGGCGCTGGAAGACCTTGAAGGAGGACACCATG	1198	
QY	527	ProProAspLeuLysAlaLysPheLeuGlnAlaArgIleLeuLysGlnTyrSerHis	546	
DB	1199	GAGGTGGAA	566	
QY	547	ProAsnIleValArgLeuIleGlyValCysThrGlnLysGlnProIleTyrIleValMet	566	
DB	1250	CCTAACCTAGTCAGCTCTTGGGTCTGCACCCGGGAGCCCGCTTCTATATCATCACT	1309	
QY	567	GluLeuValGlnGlyAspPheLeuArgThrPheLeuArgThrGluGlyAlaArgLeuArg	586	
DB	1310	GAGTTCATGACCTACGGGAACCTCTCTGGACTACCTGAGG	1366	
QY	587	ValLys	604	
DB	1367	GTGAACGCCCGTGTGCTGTGTACATGGCCACTCAGATCTCGTCAGCCATGAGTACCTTA	1426	
QY	605	GluSerLysCysCysIleHisArgAspLeuAlaAlaArgAsnCysLeuValThrGluLys	624	
DB	1427	GAGNAGAAAACCTTCATCCACAGAGATCTTGTGCCCCGAACTGCTGTGGAGGGAAC	1486	
QY	625	AsnValLeuLysIleSerAspPheGlyMetSerArgGluGluAlaAspGlyValTyrAla	644	
DB	1487	CACCTTGGTGAAGTAGCTGATTTGGCTGAGCAGGTTGATGACAGGGGACACATACACA	1546	
QY	645	AlaSerGlyGlyLeuArgGlnValProValLysThrAlaProGluAlaLeuAsnTyr	664	
DB	1547	GCCCATGCTGGAGCCAG	1603	
QY	665	GlyArgTyrSerSerGluSerAspValTyrPheGlyIleLeuLeuTyrPhe	684	
DB	1604	AACAAGTTCTCCATCAAGTCCGAGCTCTGGGCAATTTGGAGTATTTGCTTTGGGAAATGCT	1663	

Db	1139	GGCGTGTGAAGAAATACAGCTGACGGTGGCCGTGAAGACCTTGAAGGACACCATG	1198	
QY	527	ProProAspLeuLysAlaLysPheLeuGlnGluAlaArgIleLeuLysGlnTyrSerHis	546	
DB	1199	GAGGTGGAA	1249	
QY	547	ProAsnIleValArgLeuIleGlyValCysThrGlnLysGlnProIleTyrIleValMet	566	
DB	1250	CCTAACCTAGTCAGCTCTTGGGTCTGCACCCGGGAGCCCGCTTCTATATCATCACT	1309	
QY	567	GluLeuValGlnGlyAspPheLeuThrPheLeuArgThrGluGlyAlaArgLeuArg	586	
DB	1310	GAGTTCATGACCTACGGGAACCTCTGGACTACCTGAGG	1366	
QY	587	ValLys	604	
DB	1367	GTGAACGCCGTGTGCTGTATCGCCACTCAGATCTCGTCAGCCATGAGTACCTTA	1426	
QY	605	GluSerLysCysCysIleHisArgAspLeuAlaAlaArgAsnCysLeuValThrGluLys	624	
DB	1427	GAGNAGAAAACCTTCATCCACAGAGATCTTGTGCCCCGAACTGCTGTGGTGGGAGAAC	1486	
QY	625	AsnValLeuLysIleSerAspPheGlyMetSerArgGluGluAlaAspGlyValTyrAla	644	
DB	1487	CACCTTGGTGAAGTAGCTGATTTGGCTGAGCAGGTTGATGACAGGGGACACCTACACA	1546	
QY	645	AlaSerGlyGlyLeuArgGlnValProValLysThrAlaProGluAlaLeuAsnTyr	664	
DB	1547	GCCCATGCTGGAGCCAG	1603	
QY	665	GlyArgTyrSerSerGluSerAspValTyrPheGlyIleLeuLeuTyrPhe	684	
DB	1604	AACAAGTTCTCCATCAAGTCCGAGCTCTGGGCAATTTGGAGTATTTGCTTTGGGAAATGCT	1663	
QY	685	SerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnGlnThrArgGluPheValGlu	704	
DB	1664	ACCTATGGGATGTGCTTACCCGGGAATGACCGTTCACAGGTGTATGAGTCTCTAGAG	1723	
QY	705	LysGlyGlyArgLeuProCysProGluLeuCysProAspAlaValPheArgLeuMetGlu	724	
DB	1724	AAGGACTACCGCATGAAGCGCCAGAAAGCTCCCGAGAGAGGCTATGAACCTATCGGA	1783	
QY	725	GlnCysTyrAlaTyrGluProGlyGlnArgProSerPheSerThrIleTyrGlnGluLeu	744	
DB	1784	GCATGTTGGCAGTGGAAATCCCTCTGACCGGCCCTCTTGTCTGGAATCCACCAAGCCTTT	1843	
QY	745	GlnSerIle	747	
DB	1844	GAAACAATG	1852	
RESULT 11				
US-10-802-432-26				
; Sequence 26, Application US/10802432				
; Publication No. US20040185489A1				
; GENERAL INFORMATION:				
; APPLICANT: Hoffmann-La Roche Inc.				
; TITLE OF INVENTION: Transcriptional Activity Assay				
; FILE REFERENCE: 21574				
; CURRENT APPLICATION NUMBER: US/10/802,432				
; CURRENT FILING DATE: 2004-03-17				
; NUMBER OF SEQ ID NOS: 29				
; SOFTWARE: PatentIn version 3.1				
; SEQ ID NO 26				
; LENGTH: 3840				
; TYPE: DNA				
; ORGANISM: Homo sapiens				
; FEATURE:				
; NAME/KEY: proto-oncogene tyrosine-protein kinase c-abl				
; LOCATION: (1)..(3840)				
; OTHER INFORMATION: GenBank accession No. M14752				
US-10-802-432-26				

```
Qy 685 SerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnThrArgGluPheValGlu 704
Dy 1664 ACCTATGGCATGTCCCTTACCGGGAATTGACCGTTCCTCCAGGTGTATGAGCTGTAGAG 1723
Qy 705 LysGlyGlyArgLeuProCysProGluLeuCysProAspAlaValPheArgMetGlu 724
Dy 1724 AAGGACTACCGATGAAGCCCAAGAGGTGCCAGAGGTCTATGAACCTATCGGA 1783
Qy 725 GlnCysTrpAlaTyrGluProGlyGlnArgProSerPheSerThrIleTyrGlnGluLeu 744
Dy 1784 GCATGTTGGCAGTGGAAATCCCTCTGACCGGCCCTCTCTTGTGTAATCCCAAGCCTTT 1843
Qy 745 GlnSerile 747
Dy 1844 GAAACAATG 1852

RESULT 12
US-10-170-385-182
; Sequence 182, Application US/10170385
; Publication No. US20030203372A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Neil Raymond
; APPLICANT: Mundy, Christopher Robert
; APPLICANT: Kan, On
; APPLICANT: Harris, Robert Alan
; APPLICANT: White, Jonathan
; APPLICANT: Binley, Katie Mary
; APPLICANT: Rayner, William Nigel
; APPLICANT: Naylor, Stuart
; APPLICANT: Kingsman, Susan Mary
; APPLICANT: Krige, David
; TITLE OF INVENTION: ANALYSIS METHOD
; FILE REFERENCE: 53268200100
; CURRENT APPLICATION NUMBER: US/10/170.385
; CURRENT FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: PCT/GB02/01662
; PRIOR FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: PCT/GB01/05458
; PRIOR FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 549
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 182
; LENGTH: 5434
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-170-385-182

Alignment Scores:
Pred. No.: 2.58e-48 Length: 5434
Score: 624.50 Matches: 138
Percent Similarity: 53.79% Conservative: 68
Best Local Similarity: 36.03% Mismatches: 128
Query Match: 16.10% Indels: 49
DB: 17 Gaps: 10

US-10-660-763-2 (1-752) x US-10-170-385-182 (1-5434)
Qy 405 AspArgHisSerThrSerSerGluGlnGluArgGluGlyArgThrProThrLeu 424
Dy 421 GAGAAACACTCTCGGTACCATGGCGCTGTGCCGCAATGCCGCTGATATCCG----- 474
Qy 425 GluIleLeuYsSerHisIleSerGlyIlePheArgProLysPheSer----- 440
Dy 475 -----CTGACGAGCGGGATCAATGGCAGCTTCTTGTGGCTGAGATGAGAGCAGTCCT 528
Qy 440 ----- 440
Dy 529 AGCCAGAGGTCCATCTCGCTGAGATACGAGAGGAGGTGTACCATTTACAGGATCAACACT 588
Qy 441 -----AsnLeuTyrArgLeuGluGlyGluGlyPheProSerIleProLeuLeu 456
Dy 589 GCTTCTGATGGAAGCTCTACGTCTCTCCGAGAGCGCGCTTCAACACCCCTGGCCGAGTTG 648
```

```
Qy 457 IleAspHis-----LeuLeuSerThr---GlnGlnProLeuThr 468
Dy 649 GTTCATCATCATTTCAACGGTGGCGGCGCTCATCACCGCTCCATTTATCCAGCCCCA 708
Qy 469 LysLysSerGlyValValLeuHisArgAlaValProLys---AspLysTyrValLeuAsn 487
Dy 709 AAGCGCAACAGCCCACTGCTATGTGTGTCTCCCACTACGACAACTGGGAGATGGAA 768
Qy 488 HisGluAspLeuValLeuGlyGluGlnIleGlyArgGlyAsnPheGlyGluValPheSer 507
Dy 769 CGCACGGACATCATCATGAAGCAACAGCTGGCGGGGGCCAGTACGGGGAGGTGTACGAG 828
Qy 508 GlyArgLeuArgAlaAspAsnThrLeuValAlaValLysSerCysArgGlu---ThrLeu 526
Dy 829 GCGCTGTGGAAGAAATACAGCCTGACGGTGGCGGTGAAGACCTTGAAGAGGAGCACCATG 888
Qy 527 ProProAspLeuLysAlaLysPheLeuGlnGluAlaArgIleLeuLysGlnTyrSerHis 546
Dy 889 GAGGTGGAA-----GAGTTCTTGAAGAGAGCTGCAGTCATGAAGAGATCAACAC 939
Qy 547 ProAsnIleValArgLeuIleGlyValCysThrGlnLysGlnProIleTyrIleValMet 566
Dy 940 CTTAACCCTAGTCAGCTCTCTTGGGCTGTGCACCGGGAGCCCGCTTCTATATCATCACT 999
Qy 567 GluLeuValGlnGlyGlyAspPheLeuThrPheLeuArgThrGluGlyAlaArgLeuArg 586
Dy 1000 GAGTTTCATGACCTACCGGAACCTCTCTGACTACCTGAGG---GAGTGCAACCGGACGAG 1056
Qy 587 ValLys-----ThrLeuLeuGlnMetValGlyAspAlaAlaGlyMetGluTyrLeu 604
Dy 1057 GTGAACGCCGTGTGTCTGTATACATGGCCCACTCAGATCTCGTCAGCCATGGAGTACTTA 1116
Qy 605 GluSerLysCysCysIleHisArgAspLeuAlaAlaArgAsnCysLeuValThrGluLys 624
Dy 1117 GAGAGAAAAAATTCATCCACACAGATCTTGTCTGCCGAACTGCCTGGTAGGGGAGAAC 1176
Qy 625 AsnValLeuLysIleSerAspPheGlyMetSerArgGluGluAlaAspGlyValTyrAla 644
Dy 1177 CACTTGTGAAGGTAGCTGATTTTGGCTGAGCAGGTTGATGACAGGGGACACCTACACA 1236
Qy 645 AlaSerGlyGlyLeuArgGlnValProValLysTrpThrAlaProGluAlaLeuAsnTyr 664
Dy 1237 GCCCATGCTGGAGCCCAAG---TTCCCCATCAATGGACTGCACCCGAGAGCTGGCTTAC 1293
Qy 665 GlyArgTyrSerSerGluSerAspValTrpSerPheGlyIleLeuLeuTyrGluThrPhe 684
Dy 1294 AACAGTTCTCCATCAAGTCCGACGCTCTGGGCAATTTGGAGTATTGCTTTGGGAAATGCT 1353
Qy 685 SerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnThrArgGluPheValGlu 704
Dy 1354 ACCTATGGCATGTCTCCCTTACCGGGAATTTGACCGTTTCCAGGAGTGTATGAGCTGTAGAG 1413
Qy 705 LysGlyGlyArgLeuProCysProGluLeuCysProAspAlaValPheArgLeuMetGlu 724
Dy 1414 AAGGACTACCGCATGAAGCCCGCAGAGGCTGCCAGAGAGGTCTATGAACCTATCGGA 1473
Qy 725 GlnCysTrpAlaTyrGluProGlyGlnArgProSerPheSerThrIleTyrGlnGluLeu 744
Dy 1474 GCATGTTGGCAGTGGAAATCCCTCTGACCGGCCCTCTTGTGTAATCCCAAGCCTTT 1533
Qy 745 GlnSerile 747
Dy 1534 GAAACAATG 1542
```

RESULT 13

```
US-10-439-703-5
; Sequence 5, Application US/10439703
; Publication No. US20040018527A1
; GENERAL INFORMATION:
; APPLICANT: Chang, Jenny
; APPLICANT: O'Connell, Peter
; TITLE OF INVENTION: Differential Patterns of Gene Expression that Predict for Docetax
```

Wed Aug 10 16:17:25 2005

Db 1427 GAGAGAAACCTTCATCCACAGAGATCTTGCTGCCGAAACTGCTGTAGGGGAGAAC 1486
QY 625 AsnValLeuLysIleSerAspPheGlyMetSerArgGluGluAlaAspGlyValTyrAla 644
Db 1487 CACTTGGTGAAGTAGCTGATTTTGGCTGAGCAGGTTGATGACAGGGGACACCTACACA 1546
QY 645 AlaserGlyLeuArgGlnValProValIleThrAlaProGluAlaLeuAsnTyr 664
Db 1547 GCCCATGCTGGAGCAAG---TTCCCCCATCAATGGACTGCACCCGAGAGCTTGGCCTAC 1603
QY 665 GlyArgTyrSerSerGluSerAspValTyrPheGlyIleLeuLeuTyrGluThrPhe 684
Db 1604 AACAAAGTTCTCCATCAAGTCGACGCTCTGGGCATTTGGAGTATTGCTTTGGGAAATTGCT 1663
QY 685 SerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnGlnThrArgGluPheValGlu 704
Db 1664 ACCTATGGCATGTCCCTTACCCGGGAATTGACCGTTCCCGAGGTGTATGAGTCTAGAG 1723
QY 705 LysGlyGlyArgLeuProCysProGluLeuCysProAspAlaValPheArgLeuMetGlu 724
Db 1724 AAGGACTACCGCATGAAGCGCCAGAGAGGCTGCCAGAGAGGTCTATGAACCTCATGCGA 1783
QY 725 GlnCysTrpAlaTyrGluProGlyGlnArgProSerPheSerThrIleTyrGlnGluLeu 744
Db 1784 GCATGTGGCAGTGGAAATCCCTCTGACCGGCGCTCTTGTGTAATCCACCAAGCCTTT 1843
QY 745 GlnSerIle 747
Db 1844 GMAACAATG 1852

RESULT 14

US-10-457-954-5
; Sequence 5, Application US/10457954
; Publication No. US20040005623A1

GENERAL INFORMATION:

APPLICANT: Longley, B. Jack
TITLE OF INVENTION: Method of determining tumor sensitivities to therapeutic drugs
FILE REFERENCE: 960296.98890
CURRENT APPLICATION NUMBER: US/10/457,954
CURRENT FILING DATE: 2003-06-10
PRIOR APPLICATION NUMBER: 60/387,370
PRIOR FILING DATE: 2002-06-10
PRIOR APPLICATION NUMBER: 60/387,406
PRIOR FILING DATE: 2002-06-10
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.2
SEQ ID NO 5
LENGTH: 3450
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(3447)
FEATURE:
NAME/KEY: misc structure
LOCATION: (730)..(765)
OTHER INFORMATION: encode
OTHER INFORMATION: pocket
FEATURE:
NAME/KEY: misc structure
LOCATION: (931)..(1077)
OTHER INFORMATION: encode amino acids 311-359 for forming the sides of the enzymatic
OTHER INFORMATION: pocket
FEATURE:
NAME/KEY: misc structure
LOCATION: (1141)..(1206)
OTHER INFORMATION: encode amino acids 381-402 for forming the enzymatic pocket's
OTHER INFORMATION: activation loop
US-10-457-954-5

Alignment Scores: 1.89e-48 Length: 3450
Pred. No.:

TITLE OF INVENTION: Chemosensitivity and Chemoresistance

FILE REFERENCE: HO-P2482US1/10205813
CURRENT APPLICATION NUMBER: US/10/439,703
CURRENT FILING DATE: 2003-05-16
PRIOR APPLICATION NUMBER: US 60/381,141
PRIOR FILING DATE: 2002-05-17
NUMBER OF SEQ ID NOS: 91
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5
LENGTH: 5744
TYPE: DNA
ORGANISM: Human
US-10-439-703-5

Alignment Scores: 2.79e-48 Length: 5744
Pred. No.: 138 Matches: 68
Score: 53.79% Conservative: 128
Percent Similarity: 36.03% Mismatches: 49
Best Local Similarity: 16.10% Indels: 10
Query Match: 17 Gaps:

US-10-660-763-2 (1-752) x US-10-439-703-5 (1-5744)

QY 405 AspArgHisSerThrSerSerGluGlnGluArgGlyGlyArgThrProThrLeu 424
Db 731 GAGAACATCTCTGGTACCATGGCGCTGTGCCGCAATGCCGCTGAGTATCCG----- 784
QY 425 GluIleLeuLysSerHisIleSerGlyIlePheArgProLysPheSer----- 440
Db 785 -----CTGAGCAGCGGGATCAATGCCAGCTTTCTTGTGGCTGAGAGTGAGAGCAGTCCT 838
QY 440 ----- 440
Db 839 AGCCAGGTCCATCTCGCTGAGATACGAAGGAGGTGTACCATTTACAGATCAACACT 898
QY 441 -----AsnLeuTyrArgLeuGluGlyGlyPheProSerIleProLeuLeu 456
Db 899 GCTTCTGATGGCAAGCTCTACGTCTCTCCGAGAGCGCTTCAACACCTGGCGAGTTG 958
QY 457 IleAspHis-----LeuLeuSerThr-----GlnGlnProLeuThr 468
Db 959 GTTCATCATCTTCAACGGTGGCGGCTCATCCACCGCTCATATTATCCAGCCCA 1018
QY 469 LysLysSerGlyValValLeuHisArgAlaValProLys---AspLysTrpValLeuAsn 487
Db 1019 AAGCGCAACAAGCCCACTGCTCTATGGTGTGTCTCCCACTACGACAAGTGGAGATGGAA 1078
QY 488 HisGluAspLeuValLeuGlyGluGlnIleArgGlyAsnPheGlyValPheSer 507
Db 1079 CGCAGGACATCACCATGAGCACAAGCTGGCGGGGCCAGTACGGGGAGGTGTACGAG 1138
QY 508 GlyArgLeuAlaAspAsnThrLeuValAlaValLysSerCysArgGlu---ThrLeu 526
Db 1139 GCGGTGTGAAGAAATACAGCTGACGGTGGCGGTGAGACCTTGAAGAGGAGCACCATG 1198
QY 527 ProProAspLeuLysAlaLysPheLeuGlnGluAlaArgIleLeuLysGlnTyrSerHis 546
Db 1199 GAGGTGGA-----GAGTCTTGAAGAAGCTGCAGTCATGAAGAAGATCAACAC 1249
QY 547 ProAsnIleValArgLeuIleGlyValCysThrGlnLysGlnProIleTyrIleValMet 566
Db 1250 CCTAACCTAGTGCAGTCTCTGGGTCTGCACCCGGGAGCCCGCTCTATATCATCACT 1309
QY 567 GluLeuValGlnGlyArgPheLeuThrPheLeuArgThrGluGlyAlaArgLeuArg 586
Db 1310 GAGTTCAIGACCTACGGACCTCTCTGGACTACCTGAGG---GAGTGAACCGGAGGAG 1366
QY 587 ValLys-----ThrLeuLeuGlnMetValGlyAspAlaAlaAlaGlyMetGluTyrLeu 604
Db 1367 GTGAACGCGGTGGTGTGCTGTACATGGCCACTCAGATCTCGTCAGCCATGAGTACCTA 1426
QY 605 GluSerLysCysCysIleHisArgAspLeuAlaAlaArgAsnCysLeuValThrGluLys 624

Db	1006	TTCATGACCTTACCGGAACCTCCTGGACTACTCTAGG---					
Qy	588	Lys-----ThrLeuLeuGlnMetValGlYAspAlaLaIaLaGlYMetGluTyrrLeuGlu					
Db	1063	AACCCGTGTGTCTGTATCATGGCCACTCAGATCTCGTCAGCCATGGAGTACTGGAG					
Qy	606	SerLysCysCysIleHisArgAspLeuAlaAlaArgAenCysLeuValThrGluLysAen					
Db	1123	NAGAAAAATTCTATCCACAGAGATCTTGCTGCCGAAACTGCCTGGTAGGGAGAACCAC					
Qy	626	ValLeuLysIleSerAspPheGlyMetSerArgGluCluIlaaspGlyvalTyrrAlaAla					
Db	1183	TTGGTAAGGTAGCTGATTTTGCCCTGAGCAGGTTGATGACAGGGACACCTACACAGCC					
Qy	646	SerGlyGlyLeuArgGlnValProValLysTyrrThrAlaProGluAlaLeuAenTyrrGly					
Db	1243	CATGCTGGAGCCCAAG---TTCCCCATCAATGAGTCACTGCCAGAGCGCTGCCCTACNAAC					
Qy	666	ArgTyrrSerSerGluSerAspValTrpSerPheGlyIleLeuLeuTyrrGluThrPheSer					
Db	1300	AAGTTCTCCATCAAGTCCGACGCTGGGCATTTGGAGTATTGCTTTGGAAATTTGCTACC					
Qy	686	LeuGlyAlaSerProTyrrProAenLeuSerAasnGlnInThrArgGluPheValGluLys					
Db	1360	TATGGCATGTCTCCCTTACCCTGGGAATTGACCTGTCTCCAGGTGTATGAGCTCTAGAGAAG					
Qy	706	GlyGlyArgLeuProCysProGluLeuCysProAspAlaValPheArgLeuMetGluGln					
Db	1420	GACTACCGCATGAGCGCCCAGAGGCTGCCAGAGAAAGTCTATGAACTCATGGGACCA					
Qy	726	CysTrpAlaTyrrGluProGlyGlnArgProSerPheSerThrIleTyrrGlnGluLeuGln					
Db	1480	TGTTGGCAGTGAATCCCTCTGACCGGCCCTCCTTTGCTGAAATCCACCAAGCCTTTGAA					
Qy	746	SerIle 747					
Db	1540	ACAATG 1545					
RESULT 15							
US-10-263-480-1							
; Sequence 1, Application US/10263480							
; Publication No. US20030170851A1							
; GENERAL INFORMATION:							
; APPLICANT: No. US20030170851A1artis AG							
; TITLE OF INVENTION: Organic Compounds							
; FILE REFERENCE: Case 4-32175Pl/PROV							
; CURRENT FILING DATE: US/10/263,480							
; NUMBER OF SEQ ID NOS: 2							
; SOFTWARE: PatentIn version 3.0							
; SEQ ID NO 1							
; LENGTH: 3393							
; TYPE: DNA							
; ORGANISM: Homo sapiens							
; FEATURE:							
; NAME/KEY: CDS							
; LOCATION: (1)..(3393)							
US-10-263-480-1							
Alignment Scores:							
Pred. No.:	2,29e-48	Length:	3393				
Score:	622.00	Matches:	158				
Percent Similarity:	48.67%	Conservative:	79				
Best Local Similarity:	32.44%	Mismatches:	136				
Query Match:	16.04%	Indels:	114				
DB:	16	Gaps:	17				
US-10-660-763-2 (1-752) x US-10-263-480-1 (1-3393)							
Qy	360	LeuGlnGluAlaLeu-----					
Db	73	CTGGAAGAAGCCCTTCAGCGGCCAGTAGCATCTGACTTTGAGCCTCAGGGTCTCAGGTGAA					

Wed Aug 10 16:17:25 2005

641 GlyValTyrAlaAlaSerGlyGlyLeuArgGlnValProValValTyrThrAlaProGlu 660
 1171 GACACCTACACAGCCCATGCTGGAGCAAG---TTCCCCATCAATGGACTGCACCCGAG 1227
 661 AlaLeuAsnTyrGlyArgTyrSerSerGluSerAspValTyrSerPheGlyIleLeuLeu 680
 1228 AGCCTGGCCTACAAAGTTCTCCATCAAGTCCGAGCTCTGGGCAATTGGAGTATTGCTT 1287
 681 TrpGluThrPheSerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnThrArg 700
 1288 TGGGAATTTGCTATCTATGGCATGTCCCTTACCCGGGAATTGACCTGTCCAGGTGTAT 1347
 701 GluPheValGluLysGlyArgLeuProCysProGluLeuCysProAspAlaValPhe 720
 1348 GAGCTGCTAGAGAAGGACTACCGCATGGAGCGCCCAAGAGCTGCCAGAGAGTCTAT 1407
 721 ArgLeuMetGluGlnCysTyrAlaTyrGluProGlyGlnArgProSerPheSerThrIle 740
 1408 GAACTCATCGAGCATGTTGGCAGTGGAAATCCCTCTGACCGGCCCTCTTTGCTGAATC 1467
 741 TyrGlnGluLeuGlnSerIle 747
 1468 CACCAAGCCTTTGAAACAATG 1488

Search completed: August 10, 2005, 14:28:11
 Job time : 1701 secs

370 AlaLeuCysSerGlnAlaLysLeuGlnAlaGlnGlnGluLeuLeuGlnThrLysLeuGlu 389
 133 GCC-----GCTCTGTGGAACTCCAGGAACACCTTCTC----- 165
 390 HisLeuGlyProGlyGluProProValLeuLeuGln----- 403
 166 ---GCTGGACCCAGTGAATAATGACCCACCTTTTCTGTGCACGTATGATTTTGTGGCC 222
 404 ---AspAsp----- 406
 223 AGTGGAGATAACACTTAAGCATAACTAAAGGTGAAGCTCCGGTCTTAGGCTATAAT 282
 407 HisSerThrSerSerGluGlnGluArgGluGlyArg----- 420
 283 CACAATGGGNAATGGTGAAGCCCAACCAAAATGGCCAGGTGGTGTCCCAAGCAAC 342
 421 ---ThrPro-----ThrLeuGlu----- 425
 343 TACATACGCCAGTCAACAGCTCTGGAGAAACACTCTCTGGTACCATGGGCTGTGTCCCGC 402
 426 -----IleLeuLysSerHisIleSerGlyIlePheArgProLysPheSer 440
 403 AATGCCGCTGAGTATCTGCTGAGCAGCGGGATCAATGGCAGCTTCTTGTGCTGAGGT 462
 440 ----- 440
 463 GAGAGCAGTCTGTGGCAGAGTCCATCTCGCTGAGATACGAAGGAGGTGTACCATTAC 522
 441 -----AsnLeuTyrArgLeuGluGlyGluGlyPheProSer 452
 523 AGGATCAACACTCTTCTGATGGCAAGCTCTACGTCTCTCCGAGAGCCGCTTCAACACC 582
 453 IleProLeuLeuIleAspHis-----LeuLeuSerThr---Gln 464
 583 CTGGCCGAGTGTGTTCTATCATCTCACTCAACGGTGGCGGCTCATCCACCGCTCCAT 642
 465 GlnProLeuThrLysLysSerGlyValValLeuHisArgAlaValProLys---AspLys 483
 643 TATCCAGCCCAAGCGCAACAGCCCACTCTATGTGTGTCTCCCACTACGACAAAG 702
 484 TrpValLeuAsnHisGluAspLeuValLeuGlyGluGlnIleGlyArgGlyAsnPheGly 503
 703 TGGGAGATGGAACGACGAGACATCACCATGAAGCACAAGCTGGCGGGCGCAGTACGGG 762
 504 GluValPheSerGlyArgLeuArgAlaAspAsnThrLeuValAlaValLysSerCysArg 523
 763 GAGGTGTACGAGGCGGTGTGAAGAAATACAGCCTGACCGTGGCGGTGAAGACCTTGAAG 822
 524 Glu---ThrLeuProProAspLeuLysAlaLysPheLeuGlnGluAlaArgIleLeuLys 542
 823 GAGGACACCATGGAGGTGAA-----GAGTCTTGAAGAAGCTGCAGTCAATGAA 873
 543 GlnTyrSerHisProAsnIleValArgLeuIleGlyValCysThrGlnLysGlnProIle 562
 874 GAGATCAACACCCCTAACCTGTGAGCTCTCTGGGTCTGCACCGGAGGCCCGCTTC 933
 563 TyrIleValMetGluLeuValGlnGlyAspPheLeuThrPheLeuArgThrGluGly 582
 934 TATATCATCATGAGTTATGACCTACCGGAAACCTCTTGGACTACCTGAGG---GAGTGC 990
 583 AlaArgLeuArgValLys-----ThrLeuLeuGlnMetValGlyAspAlaAlaGly 600
 991 AACCGGAGGAGGTGAACCGCTGTGTGTGTATGAGGCACTCAGATCTGTCAGCC 1050
 601 MetGluTyrLeuGlnSerLysCysIleHisArgAspLeuAlaAlaArgAsnCysLeu 620
 1051 ATGGAGTACCTGGAGAAGAAACCTTCATCCACAGATCTTGTCTGCCCGAACTGCTG 1110
 621 ValThrGluLysAsnValLeuLysIleSerAspPheGlyMetSerArgGluAlaAsp 640
 1111 GTAGGGAGAACCACTTGGTGAAGTAGTGTATTTGGCCTGAGCAGGTGTATGACAGGG 1170

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: August 9, 2005, 21:16:47 ; Search time 428 Seconds
(without alignments)

2874.953 Million cell updates/sec

Title: US-10-660-763-2

Perfect score: 3879

Sequence: 1 MGFSSELSPQGHVLOQMO.....QRFSTIYQELQSIKRRHR 752

Scoring table:

BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+ p2n.model -DEV=xlp
-O=/cg2_1/USPTO_pool_p/US10660763/runat_03082005_182824_28642/app_query.fasta_1.903
-DB=Issued Patents NA -OPMT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=pct -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US10660763 @CGN 1 1 105 @runat_03082005_182824_28642 -NCPU=6 -ICPU=3
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued Patents NA:
1: /cg2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cg2_6/ptodata/1/ina/5B_COMB.seq:*
3: /cg2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cg2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cg2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cg2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3879	100.0	2674	3	US-09-817-180-1
2	3879	100.0	2674	4	US-10-003-295-1
3	2137	55.1	15297	3	US-09-817-180-3
4	2137	55.1	15297	4	US-10-003-295-3
5	624.5	16.1	3623	1	US-08-306-691B-35
6	624.5	16.1	5434	4	US-09-949-016-927
7	622	16.0	5763	4	US-09-949-016-3759
8	607.5	15.7	1521	2	US-08-604-989A-10
9	607.5	15.7	1713	3	US-09-741-154-1
10	605.5	15.6	1942	2	US-08-604-989A-11
11	605.5	15.6	2000	3	US-08-426-509A-1
12	605.5	15.6	2000	4	US-08-232-545-1

13	605.5	15.6	2000	5	PCT-US95-05008-1	Sequence 1, Appli
14	602	15.5	1398	2	US-08-604-989A-9	Sequence 9, Appli
15	598.5	15.4	2572	4	US-09-949-016-5357	Sequence 5357, Ap
16	598	15.4	2574	3	US-10-142-529-2	Sequence 2, Appli
17	598	15.4	2574	4	US-10-045-428A-2	Sequence 2, Appli
18	597	15.4	3650	4	US-09-949-016-454	Sequence 454, App
19	596.5	15.4	3622	4	US-09-949-016-5518	Sequence 5518, Ap
20	596.5	15.4	3663	4	US-09-919-172-84	Sequence 84, Appl
21	593	15.3	1994	4	US-09-949-016-1967	Sequence 1967, Ap
22	591	15.2	2456	4	US-09-016-434-1476	Sequence 1476, Ap
23	591	15.2	2500	3	US-08-426-509A-3	Sequence 3, Appli
24	591	15.2	2500	4	US-08-232-545-3	Sequence 3, Appli
25	591	15.2	2500	5	PCT-US95-05008-3	Sequence 3, Appli
26	585.5	15.1	6381	4	US-09-949-016-755	Sequence 755, App
27	582.5	15.0	2505	1	US-08-391-615-1	Sequence 1, Appli
28	581.5	15.0	2440	1	US-08-160-861-2	Sequence 2, Appli
29	581.5	15.0	2442	1	US-08-542-363-3	Sequence 3, Appli
30	581.5	15.0	2442	3	US-09-100-089-3	Sequence 3, Appli
31	581.5	15.0	2442	3	US-09-670-827-3	Sequence 3, Appli
32	581.5	15.0	2442	4	US-09-827-949-3	Sequence 3, Appli
33	574.5	14.8	1467	4	US-09-579-182-2	Sequence 2, Appli
34	574.5	14.8	1548	3	US-09-099-053-1	Sequence 1, Appli
35	574.5	14.8	2432	4	US-09-949-016-5264	Sequence 5264, Ap
36	573.5	14.8	2608	1	US-08-160-861-1	Sequence 1, Appli
37	573.5	14.8	6226	1	US-08-542-363-1	Sequence 1, Appli
38	573.5	14.8	6226	3	US-09-100-089-1	Sequence 1, Appli
39	573.5	14.8	6226	3	US-09-670-827-1	Sequence 1, Appli
40	573.5	14.8	6226	4	US-09-827-949-1	Sequence 1, Appli
41	573	14.8	3791	3	US-09-377-310-1	Sequence 1, Appli
42	571.5	14.7	4975	2	US-08-249-687C-1	Sequence 1, Appli
43	571.5	14.7	4989	2	US-08-666-392A-3	Sequence 3, Appli
44	571.5	14.7	4989	2	US-08-625-819-1	Sequence 1, Appli
45	571.5	14.7	4989	3	US-08-755-558-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1

US-09-817-180-1

; Sequence 1, Application US/09817180

; Patent No. 6340584

; GENERAL INFORMATION:

; APPLICANT: GAN, Weiniu et al.

; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC

; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES

; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: CL001183

; CURRENT APPLICATION NUMBER: US/09/817,180

; CURRENT FILING DATE: 2001-03-27

; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1

; LENGTH: 2674

; TYPE: DNA

; ORGANISM: Human

; US-09-817-180-1

Alignment Scores:

Pred. No.:	0	3879.00	Length:	2674
Score:	100.00%	Conservative:	752	
Percent Similarity:	100.00%	Mismatches:	0	
Best Local Similarity:	100.00%	Indels:	0	
Query Match:	100.00%	Gaps:	0	
DB:	3			

US-10-660-763-2 (1-752) x US-09-817-180-1 (1-2674)

Qy 1 MetGlyPheSerSerGluLeuCySerProGlnGlyHisGlyValLeuGlnMetGln 20

Db 72 ATGGGCTTCTTCTCTGAGTGTGCAGCCCGGCGGCGTCTGACGAATGCG 131

Qy 21 GluAlaGluLeuArgLeuLeuGluGlyMetArgLysTrpMetAlaGlnArgValLysSer 40

Db 132 GAGGCGAGCTCGTCTACTGGAGGGCATGAGAAAGTGGATGGCCAGCGGCTCAAGAGT 191
 QY 41 AspArgGluTyrAlaGlyLeuLeuHisHisMetSerLeuGlnAspSerGlyGlyGlnSer 60
 Db 192 GACAGGGAGTATGACAGGACTGCTTACCACATGTCTCCCTGCAGGACAGTGGGGGCAGAGC 251
 QY 61 ArgAlaIleSerProAspSerProIleSerGlnSerTrpAlaGluIleThrSerGlnThr 80
 Db 252 CGGGCCATCAGCCCTGACAGCCCATCAGTCACTGCTGGCTGAGATCACCAGCCAACT 311
 QY 81 GluGlyLeuSerArgLeuLeuArgGlnHisAlaGluAspLeuAsnSerGlyProLeuSer 100
 Db 312 GAGGCTGAGCGCTGCTGCGCAGCAGCGAGAGGATCTGAATCTCAGGGGCCCTGAGC 371
 QY 101 LysLeuSerLeuLeuIleArgGluArgGlnGlnLeuArgLysThrTyrSerGluGlnTrp 120
 Db 372 AAGCTGAGCTGCTCATCTCCGGGAACGGCAGCAGCTTCGCAAGACCTACAGCGAGCAGTGG 431
 QY 121 GlnGlnLeuGlnGlnLeuThrLysThrHisSerGlnAspIleGluLysLeuLysSer 140
 Db 432 CAGCAGCTGCAGCAGGAGCTCACCAAGACCACAGCCAGGACATTCGAGAAAGCTGAAGAGC 491
 QY 141 GlnTyrArgAlaLeuAlaArgAspSerAlaGlnAlaLysArgLysTyrGlnGlnAlaSer 160
 Db 492 CAGTACCAGCTCTGGCAGCGGACAGTGCCTCCAGCCAGCCAGCTACCCAGGAGGCCAGC 551
 QY 161 LysAspLysAspArgAspLysAlaLysAspLysTyrValArgSerLeuTrpLysLeuPhe 180
 Db 552 AAAGNACAGGACCTGCAGAGCCCAAGGCCAAGTATGTGGCAGCCTGTGGAAGCTCTTT 611
 QY 181 AlaHisHisAsnArgTyrValLeuGlyValArgAlaAlaGlnLeuHisHisGlnHis 200
 Db 612 GCTACCAACAACCGCTATGTCTGGGGCTGGGGCTGCGGAGCTACACACAGCAGCCAC 671
 QY 201 HisGlnLeuLeuLeuProGlyLeuLeuArgSerLeuGlnAspLeuHisGluGluMetAla 220
 Db 672 CACCAGCTCTCTGCTCCCGGCTGCTGGGTCACTGCAGGACCTGCAGCAGGAGATGGCT 731
 QY 221 CysIleLeuLysGluIleLeuGlnGluTyrLeuGluIleSerSerLeuValGlnAspGlu 240
 Db 732 TGCACTCTGAAGAGATCTCTGAGGAATACCTGGAGATTAGCAGCCTGTGGCAGGATGAG 791
 QY 241 ValValAlaIleHisArgGluMetAlaAlaAlaAlaArgIleGlnProGluAlaGlu 260
 Db 792 GTGGTGGCCATTACCGGAGATGCTGCAGCTGTGCTGCCCATCCAGCTCAGGCTGAG 851
 QY 261 TyrGlnGlyPheLeuArgGlnTyrGlySerAlaProAspValProProCysValThrPhe 280
 Db 852 TACCAAGGCTTCTCGACAGATATGGGTCCGACCTGACCTGCCACCTGTCACGTTTC 911
 QY 281 AspGluSerLeuLeuGluGluGlyGluProLeuGluProGlyGluLeuGlnLeuAsnGlu 300
 Db 912 GATGAGTCACTGCTTGAGAGGGTGAACCGCTGGAGCCTGGGGAGCTCCAGCTGAACGAG 971
 QY 301 LeuThrValGluSerValGlnHisThrLeuThrSerValThrAspGluLeuAlaValAla 320
 Db 972 CTGACTGTGAGAGCGTGCAGCACACGCTCAGCTCAGTACAGATGAGTGGCTGTGGCC 1031
 QY 321 ThrGluMetValPheArgArgGlnGluMetValThrGlnLeuGlnGlnLeuLeuArgAsn 340
 Db 1032 ACCGAGATGGTGTTCAGCGCGGAGGAGATGGTTACGCAGCTGCACAGGAGCTCCGGAAT 1091
 QY 341 GluGluGluAsnThrHisProArgGluArgValGlnLeuLeuGlyLysArgGlnValLeu 360
 Db 1092 GAAGAGGAGAACACCCACCCCGGGAGCGGTGCAGCTGTGGGCAAGGAGGAGTGTG 1151
 QY 361 GlnGluAlaLeuGlnGlyLeuGlnValAlaLeuCysSerGlnAlaLysLeuGlnAlaGln 380
 Db 1152 CAAGAAGCAGCTGCAGGGGCTGCAAGTGGCTGTGACGCCAGGCCAAGCTGCAGGCCAG 1211
 QY 381 GlnGluLeuLeuGlnThrLysLeuGluHisLeuGlyProGlyGluProProValLeu 400
 Db 1212 CAGGAGTGTGCTGCAGACCAAGCTGGAGCACCTGGGGCCCGCGAGCCCCCGCTGTGCTG 1271

QY 401 LeuLeuGlnAspAspArgHisSerThrSerSerGluGlnGlnArgGluGlyGlyArg 420
 Db 1272 CTCCTGCAGATGACCGCCACTCCACGCTCTCTCGAGCAGGAGAGAGGGGGAGG 1331
 QY 421 ThrProThrLeuGluIleLeuLysSerHisIleSerGlyIlePheArgProLysPheSer 440
 Db 1332 ACACCCACGCTGAGATCCTTAAGAGCCACATCTCAGGAATCTTCGGCCCAAGTCTCG 1391
 QY 441 AsnLeuTyrArgLeuGluGlyGluGlyPheProSerIleProLeuLeuIleAspHisLeu 460
 Db 1392 AACCTGTACCGACTGGAAGGGGAAGGCTTCTTAGCATCTCTTTGCTCATCGACCACCTA 1451
 QY 461 LeuSerThrGlnGlnProLeuThrTyrLysSerGlyValValLeuHisArgAlaValPro 480
 Db 1452 CTGAGCACCCAGCAGCCCTCACCAAGAAGAGTGGTGTGTCTGCACAGGCTGTGCC 1511
 QY 481 LysAspLysTrpValLeuAsnHisGluAspLeuValLeuGlyGluGlnIleGlyArgGly 500
 Db 1512 AAGGACAAGTGGGTGCTGAACCATGAGGACCTGGTGTGGGTGAGCAGATTGAGCGGGG 1571
 QY 501 AsnPheGlyGluValPheSerGlyArgLeuArgAlaAspAsnThrLeuValAlaValLys 520
 Db 1572 AACTTTGGCGAAGTGTTCAGCGGAGCCTCGAGCGGACCAACACCTGTGGGGTGAAG 1631
 QY 521 SerCysArgGluThrLeuProAspLeuLysAlaLysPheLeuGlnGluAlaArgIle 540
 Db 1632 TCTTGTGAGAGAGCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGCGAGGATC 1691
 QY 541 LeuLysGlnTyrSerHisProAsnIleValArgLeuIleGlyValCysThrGlnLysGln 560
 Db 1692 CTGAAGCAGATACAGCCACCCCAACATCGTGGTCTCATTTGGTGTGCACCCAGAGAGCAG 1751
 QY 561 ProIleTyrIleValMetGluLeuValGlnGlyGlyAspPheLeuThrPheLeuArgThr 580
 Db 1752 CCCATCTACATCGTCATGGAGCTTGTGAGGGGGGACCTTCTCTGAGCCTTCTCCGACG 1811
 QY 581 GluGlyAlaArgLeuArgValLysThrLeuLeuGlnMetValGlyAspAlaAlaAlaGly 600
 Db 1812 GAGGGGGCCCGCTCGGGTGNAGACTCTGTGCAGATGGTGGGGATGCAAGCTGTGTCG 1871
 QY 601 MetGluTyrLeuGluSerLysCysIleHisArgAspLeuAlaAlaArgAsnCysLeu 620
 Db 1872 ATGGAGTACTCGAGAGCAAGTGTGTCATCCACGGGACCTGGGCTGCTCGGAACCTG 1931
 QY 621 ValThrGluLysAsnValLeuLysIleSerAspPheGlyMetSerArgGluGluAlaAsp 640
 Db 1932 GTGACAGAGAAGAAATGTCTCTGAAGATCAGTGACTTTGGATGTCCCGAGAGAGCCGAT 1991
 QY 641 GlyValTyrAlaAlaSerGlyGlyLeuArgGlnValProValLysThrAlaProGlu 660
 Db 1992 GGGGTCTATGACGCTTCAGGGGGCTCCCGTGAAGTCCCGTGAAGTGAACCCACCTGAG 2051
 QY 661 AlaLeuAsnTyrGlyArgTyrSerSerGluSerAspValTrpSerPheGlyIleLeuLeu 680
 Db 2052 GCCCTTTAACTACGCGCGCTACTCTCCGAAGAGGACGTGTGGAGCTTTGGCATCTTGCTC 2111
 QY 681 TrpGluThrPheSerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnThrArg 700
 Db 2112 TGGAGNACCTTCAGCTGGGGGCTCCCGTATATCCCACTCAGCAATCAGCAGACAGG 2171
 QY 701 GluPheValGluLysGlyArgLeuProCysProGluLeuCysProAspAlaValPhe 720
 Db 2172 GAGTTTGGAGAAGGGGGCGCTGTGCCCTTGCCCGAGAGCTGTCTCTGATGCCGTGTTCC 2231
 QY 721 ArgLeuMetGluGlnCysTrpAlaTyrGluProGlyGlnArgProSerPheSerThrIle 740
 Db 2232 AGGCTCATGAGGACAGTCTGCGCTATGAGCTTGGGCGAGCGGCCAGCTTTCAGACCATC 2291
 QY 741 TyrGlnGluLeuGlnSerIleArgLysArgHisArg 752
 Db 2292 TACCAGGAGCTGCAGACATCCGAAAGCGGCATCGG 2327

RESULT 2

US-10-003-295-1
; Sequence 1, Application US/10003295
; Patent No. 6686187
; GENERAL INFORMATION:
; APPLICANT: GAN, Weiniu et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: CL001183DIV
; CURRENT APPLICATION NUMBER: US/10/003,295
; CURRENT FILING DATE: 2001-12-06
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2674
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-003-295-1

Alignment Scores:
Pred. No.: 0 Length: 2674
Score: 3879.00 Matches: 752
Percent Similarity: 100.00% Conservativity: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-10-660-763-2 (1-752) x US-10-003-295-1 (1-2674)

QY	1	MetGlyPheSerSerGluLeuCysSerProGlnGlyHisGlyValLeuGlnGlnMetGln	20
DB	72	ATGGGCTTCTCTTCTGAGCTGTGCAGCCCGCCAGGGCCACGGGGTCTTCGACGAATGCAG	131
QY	21	GluAlaGluLeuArgLeuGluGlyMetArgIstPpMetAlaGlnArgValIstSer	40
DB	132	GAGGCCAGGCTTCTCTACTGGAGGCGATGAGAAGTGGATGGCCCGGCTCAAGGT	191
QY	41	AspArgGluTyrAlaGlyLeuLeuHisMetSerLeuGlnAspSerGlyGlnSer	60
DB	192	GACAGGAGATGTCAGGACTGCTTCCACACATGTCCTGCAGGACAGTGGGGCCAGGC	251
QY	61	ArgNlaIstSerProAspSerProIstSerGlnSerTrpAlaGluIleThrSerGlnThr	80
DB	252	CGGSCCATCAGCCCTGACGCCCATCAGTCAGTCTCTGGGCTGAGATCACCAGCCAACT	311
QY	81	GluGlyLeuSerArgLeuLeuArgGlnHisAlaGluAspLeuAenSerGlyProLeuSer	100
DB	312	GAGGGCTTGAGCCCTTGCTGCGGCACAGCAGAGATCTGAACCTCAGGGCCCTGAGC	371
QY	101	LysLeuSerLeuLeuIleArgGluArgGlnGlnLeuArgIstPpThrTyrSerGluGlnTrp	120
DB	372	AAGCTGAGCCTGTCTCATCCGGAAACGCGCAGCAGCTTCGAAAGACCTACAGGAGCAGTG	431
QY	121	GlnGlnLeuGlnGlnGluLeuThrLysThrHisSerGlnAspIleGluLysLeuLysSer	140
DB	432	CAGCAGCTGCAGCAGGAGCTCACCAGACCCACAGCCAGGACATTCGAAAGCTGGAAGC	491
QY	141	GlnTyrArgAlaLeuAlaArgAspSerAlaGlnAlaLysArgIstPpThrGlnGluAlaSer	160
DB	492	CAGTACCGAGCTCTGGCAGCGGACAGTGCCACAGCCAGCGCAAGTACAGGAGGCCAGC	551
QY	161	LysAspLysAspArgAspLysAlaLysAspLysTyrValArgSerLeuTrpLysLeuPhe	180
DB	552	AAAGACAAGACCGTGACAGGCCCAAGGACAAGATATGTGGCAGCCTGTGGAAGCTCTTT	611
QY	181	AlaHisHisAenArgTyrValLeuGlyValArgAlaAlaGlnLeuHisGlnHisHis	200
DB	612	GCTCACCACACCCGCTATGTCTGGGCTGGGGCTGGCAGCTACAGCACCAGCACCAC	671
QY	201	HisGlnLeuLeuLeuProGlyLeuLeuArgSerLeuGlnAspLeuHisGluGluMetAla	220
DB	672	CACAGCTCTCTGCTGCCCCGGCTCTCTGGGTCACTGCGAGACCTGCGCAGGAGATGGCT	731

QY	221	CysIleLeuLysGluIleLeuGlnGlnTyrLeuGluLysSerSerLeuValGlnAspGlu	240
DB	732	TGCATCTCTGAAGGAGATCTCTGCAGGAATACCTGCAGATTAGCAGCTTGGTGCAGGATGAG	791
QY	241	ValValAlaIleHisArgGluMetAlaAlaAlaAlaArgIleGlnProGluAlaGlu	260
DB	792	GTGGTGGCCATTCCACCGGAGATGGCTGCAGCTGTCTGCCGATCCAGCTTGAAGCTGAG	851
QY	261	TyrGlnGlyPheLeuArgGlnTyrGlySerAlaProAspValProCysValThrPhe	280
DB	852	TACCAAGGCTTCTTCGCACAGATATGGTCCGCACCTGACGCTCCACCTGTGTCACTTC	911
QY	281	AspGluSerLeuLeuGluGlyGlyProLeuGluProGlyGluLeuGlnLeuAsnGlu	300
DB	912	GATGAGTCACTGCTTGAGGAGGGTGAACCGCTGGAGCTTGGGAGCTCCAGCTGAACGAG	971
QY	301	LeuThrValGluSerValGlnHisThrLeuThrSerValThrAspGluLeuAlaValAla	320
DB	972	CTGACTGTGGAGAGCGTGCAGCACCGCTCACTCAGTGACATGAGCTGGCTGTGGCC	1031
QY	321	ThrGluMetValPheArgArgGlnGluMetValThrGlnLeuGlnGlnLeuArgAsn	340
DB	1032	ACCGAGATGGTGTTCAGGCGGCGAGAGATGTTACCGCAGCTGCAACAGGAGCTCCGAT	1091
QY	341	GluGluGluAenThrHisProArgGluArgValGlnLeuLeuGlyLysArgGlnValLeu	360
DB	1092	GAAGAGGAGAAACACCCACCCCGGAGCGGTGCAGCTGTGGGCAAGAGCAAGTGTCTG	1151
QY	361	GlnGluAlaLeuGlnGlyLeuGlnValAlaLeuCysSerGlnAlaLysLeuGlnAlaGln	380
DB	1152	CAAGAAGCACTGCAGGGGCTGCAGGTAGCGCTGTGCAGCGCAGGCAAGCTGCAGGCCAG	1211
QY	381	GlnGluLeuLeuGlnThrLysLeuGluHisLeuGlyProGlyGluProProValLeu	400
DB	1212	CAGGAGTGTGCAGACCAAGCTGGAGCACTGGGCCCCCGCGAGCCCCCGCTGTGCTG	1271
QY	401	LeuLeuGlnAspAspArgHisSerThrSerSerSerGluGlnGluArgGluGlyArg	420
DB	1272	CTCTTGAGGATGACGCCACTCAGCTGCTCTCGGAGCAGGAGCGAGGGGGGAGG	1331
QY	421	ThrProThrLeuGluIleLeuLysSerHisIstSerGlyIlePheArgProLysPheSer	440
DB	1332	ACACCCAGCTGGAGATCTTAAAGAGCCACATCTCAGGAATCTTCCGCCCCCAAGTCTCG	1391
QY	441	AsnLeuTyrArgLeuGluGlyGluGlyPheProSerIleProLeuLeuIleAspHisLeu	460
DB	1392	AACTGTACGACTGGNAGGGGAAGGCTTCTTAGCATTCTTGTCTCATCGACCACCTA	1451
QY	461	LeuSerThrGlnGlnProLeuThrLysLysSerGlyValValLeuHisArgAlaValPro	480
DB	1452	CTGAGCACCCAGCAGGCCCTCACCAGAGAGTGGTGTCTCTGCACAGGGCTGTGCC	1511
QY	481	LysAspIstPpValLeuAenHisGluAspLeuValLeuGlyGluGlnIleGlyArgGly	500
DB	1512	AAGGACAAGTGGTGTGTGAACCATGAGGACCTGGTGTGGGTGAGCAGATTGGACGGGG	1571
QY	501	AsnPheGlyGluValPheSerGlyArgLeuArgAlaAspAenThrLeuValAlaValLys	520
DB	1572	AACTTTGGCGAAGTGTTCAGCGGACCGCTCGGAGCCGACCAACCTGTGTGGCGGTGAAG	1631
QY	521	SerCysArgGluThrLeuProProAspLeuLysAlaLysPheLeuGlnGluAlaArgIle	540
DB	1632	TCTTGTGAGAGAGCGCTCCACCTGACCTCAGGCCCAAGTTTCTACAGGAAGCGAGGATC	1691
QY	541	LeuLysGlnTyrSerHisProAenIleValArgLeuIleGlyValCysThrGlnLysGln	560
DB	1692	CTGAAGCAGTACAGCCACCCCAACATCGTGCCTCTATTGGTGTGTGACACCCAGAGCAG	1751
QY	561	ProIleTyrIleValMetGluLeuValGlnGlyArgPheLeuThrPheLeuArgThr	580
DB	1752	CCCATCTACATCTGAGGCTTGTGAGGGGGGCGACTTCTCTGACCTTCTCTCCGACG	1811

Wed Aug 10 16:17:25 2005

581 GluGlyAlaArgLeuArgVallySerThrLeuLeuGlnMetValGlyAspAlaAlaGly 600
1812 GAGGGGGCCGCTCGGGTGAAGACTCTGCTGCGAGATGGTGGGGATGAGCTGCTGGC 1871
601 MetGluTyrLeuGluSerLysCysCysIleHisArgAspLeuAlaAlaArgAsnCysLeu 620
1872 ATGGAGTACTGGAGAGCAAGTGTGCATCCACCGGACCTGGCTGCTCGGAACCTGCCTG 1931
621 ValThrGluLysAsnValLeuLysIleSerAspPheGlyMetSerArgGluAlaAsp 640
1932 GTGACAGAGAAGAAATCTCTGGAAGATCAGTGACTTTGGGATGTCCCGAGAGGAGCCGAT 1991
641 GlyValTyrAlaAlaSerGlyGlyLeuArgGlnValProVallySerThrAlaProGlu 660
1992 GGGGTCTATGACCCCTCAGGGGCTCAGCAAGTCCCGCTGAAGTGGACCGCACCCTGAG 2051
661 AlaLeuAsnTyrGlyArgTyrSerSerGluSerAspValTyrSerPheGlyIleLeuLeu 680
2052 GCCCTTAACCTACGGCCGCTACTCTCCGAAAGCGACGTGTGAGCTTTTGGCATCTTGCTC 2111
681 TrpGluThrPheSerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnGlnThrArg 700
2112 TGGAGACCTTCAGCCCTGGGGGCTCCCTCTATCCCAACCTCAGCAATCAGCAGACACGG 2171
701 GluPheValGluLysGlyArgLeuProCysProGluLeuCysProAspAlaValPhe 720
2172 GAGTTTGTGGAGAAGGGGGCGGTCTGCCCTGCCAGAGCTGTCTGATGCCGTGTTTC 2231
721 ArgLeuMetGluGlnCysTyrAlaTyrGluProGlyGlnArgProSerPheSerThrIle 740
2232 AGGCTCATGGAGCAGTGTGGGCTATGAGCTGGGAGCGGGCCAGCTTCAGCACCATC 2291
741 TyrGlnGluLeuGlnSerIleArgLysArgHisArg 752
2292 TACCAGGAGCTGCAGAGCATCCGAAAGCGGCATCGG 2327

RESULT 3
US-09-817-180-3
; Sequence 3, Application US/09817180
; Patent No. 6340584
; GENERAL INFORMATION:
; APPLICANT: GAN, Weiniu et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001183
; CURRENT APPLICATION NUMBER: US/09/817,180
; CURRENT FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 15297
; TYPE: DNA
; ORGANISM: Human
US-09-817-180-3

Alignment Scores:
Pred. No.: 2,55e-198 Length: 15297
Score: 2137.00 Matches: 747
Percent Similarity: 21.28% Conservative: 0
Best Local Similarity: 21.28% Mismatches: 5
Query Match: 55.09% Indels: 264
DB: 3 Gaps: 16

US-10-660-763-2 (1-752) x US-09-817-180-3 (1-15297)
QY 1 MetGlyPheSerSerGluLeuCysSerProGlyGlyHisGlyValLeuGlnMetGln 20
DB 2563 ATGGGCTTCTCTTCTGAGCTGTGAGCCCGCCAGGGCCAGGGGTCTCTGAGCAAAATGCAG 2622
QY 21 GluAlaGluLeuArgLeuLeuGluGlyMetArgLysTrpMetAlaGlnArgVallySer 40
DB 2623 GAGCCCGAGCTTCTGCTACTGAGGGCATGAGAAAGTGGATGGCCCGCCAGCGGTCAGAGT 2682

QY 41 AspArgGluTyrAlaGlyLeuLeuHisMetSerLeuGlnAspSerGlyGlyClnSer 60
DB 2683 GACAGGGAGTATGCAAGGACTGCTTTCACCAATGTCCTTCAGGACAGTGGGGGCCAGAGC 2742
QY 61 ArgAlaIleSerProAspSerProIleSerGlnSer----- 72
DB 2743 CGGGCCCATCAGCCCTGACAGCCCCCATCAGTCAGGT- GGGTCTCTATGGGACTCTGTGGTGG 2801
QY 72 ----- 72
DB 2802 TGCTGGCGTATCTGCCTTCTCTCTCTGGGGCCCTCTGGGGCAGTGGCTGGAGA 2861
QY 72 ----- 72
DB 2862 TCTGGCAGGCCAATGCTTGGAGGCCATTGTGCCCCCTCCCTCCCTCCCCCATCTGTGCT 2921
QY 73 -----TrpAlaGluIleThrSerGlnThrGluGlyLeuSerArgLeuLeuArgGln 89
DB 2922 GTATAGTCTCTGGGCTGAGATCACCAGCCAACTGAGGGGCTGAGCCGCTTGTGCGGCGAG 2981
QY 90 HisAlaGluAspLeuAsnSerGlyProLeuSerLysLeuSerLeuLeuIleArgGluArg 109
DB 2982 CACGAGAGGATCTGAACCTCAGGGCCCTGAGCAAGCTGAGCCTGTCTCATCCGGGAACCG 3041
QY 110 GlnGlnLeuArgLysThrTyrSerGluGlnTrpGlnGlnLeuGlnGlnLeuThrLys 129
DB 3042 CAGCAGCTTCGAAAGACCTACAGCAGCAGTGGCAGCAGCTGCAGCAGAGCTCACCAG 3101
QY 129 ----- 129
DB 3102 GTGAGCGGGCAGCACTGGGGCTTCGGTCAATTCCTCTCTAAATTTGAGCCTCGAAGGGGT 3161
QY 129 ----- 129
DB 3162 TGTTTTGCAAGAGAGCCCTGGATTCTACCTGGGGAAGTGTAACTCCCTGACCGCAGGCGCTG 3221
QY 129 ----- 129
DB 3222 GCTTCTCTAACCTTGATGTAGTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3281
QY 129 ----- 129
DB 3282 GCAAGGCTCTCTGTGCTTTTCTGTGCTGGGCAAGTGTGGAGTGTGAAGATGAGT 3341
QY 129 ----- 129
DB 3342 GACCGGTCAAGTGCCTGGGAGAAGCTCAGATCGGTACTCGCCTCCACACTGTGCACTCT 3401
QY 129 ----- 129
DB 3402 GGCTCTGGGTCTGTAGAGTGTGAGAGAGGAATGAGGGTGTAGTCTGTTTGGCTTCGACCTA 3461
QY 129 ----- 129
DB 3462 TGCAGCCTCTCTCTCAGGGGCCCCAGAGACTGGGCGAGCAGCATGGCCCCCGAAGTGTGAGG 3521
QY 129 ----- 129
DB 3522 ACTCGGGCCGTGAAGTGTGAGCTGTGAGTTTGAATCCCAAGCCAGCTCTCTCAGTCTAGAG 3581
QY 129 ----- 129
DB 3582 GCTGTGTGATTTGGAACATAATTTATCTGGGAGGCTAGTGGCCCCCATTTTCAGTGTGCTGCTCA 3641
QY 129 ----- 129
DB 3642 CCCTCCCTGCACCACACCCCTTCTCTCAAGTGCAGAGCCAGCCAGCTTGCATGGACCCACAG 3701
QY 129 ----- 129
DB 3702 CGGGCCCTGGTGGCCACCCCTGGCCCCCATTTCTGCCCCAAAAGATCATCTGATTCAGGG 3761

QY 129 ----- 129
Db 3762 TGGGCCCATTTTATAAAGTTTCTGGAAACACAGCTATGCCCCCTTTGTTTCATATTGT 3821
QY 129 ----- 129
Db 3822 CTGTGACTACAATGACAGAGTTGAGTAATTGTGACAGAGGCTCTATGSCCTACAAGCCTA 3881
QY 129 ----- 129
Db 3882 AAATAATTATTTACTATCTGCCCCCTTTAAGAAAAAGACTGATCTAGTCGAGGAATCTAGC 3941
QY 129 ----- 129
Db 3942 TCAGTTACAGATGGGGAACCTGAGGTTGGGGCTTGCCCAACATATCCAGCACATAAAC 4001
QY 129 ----- 129
Db 4002 AGGAGAACTGGACGAGAACTGATCTCGGGCTGTCTATTCCTACTGCCAAGAACA 4061
QY 129 ----- 129
Db 4062 TAATTTGCAGGACCCAGTCAGTAAGTAATTTGGGGGTCTTTGTTAAAGATTGCTAGG 4121
QY 129 ----- 129
Db 4122 AATTTCCAGGTGGCAATTAATGGAGAATGAAACCAAGCACAGGCCCTTTTACATGTGGAG 4181
QY 129 ----- 129
Db 4182 CCCCCTGTACTGCACAGGCGGTGCACACCTGCNACTGGCCCTGCTGCCACAGGCTAC 4241
QY 129 ----- 129
Db 4242 CACTGTCAAGGAGGACCGTTGTAGCTGTAGTCTACCTCTTTGGCTCCCCAAGG 4301
QY 129 ----- 129
Db 4302 GGTCGTCTTCAACAGGCTCTCTGATCTTTGACTCTCACGTGACAGCCAGCTTTCCAG 4361
QY 129 ----- 129
Db 4362 AAGTCTCAGGTGCTCTTGGCTGACGACAGGACCTTTCCAGGGCTTCACCCCAAGCAAG 4421
QY 130 -----ThrHi 131
Db 4422 AATCTTCCACAACTGGGGACCTGTGCTCCCCACACTGGCCTCTCTCTCCTTAGACCCA 4481
QY 131 sSerGlnAspIleGluLysLeuLysSerGlnTyrArgAlaLeuAlaLysAspSerAlaG1 151
Db 4482 CAGCCAGGACATTTGAGAAGCTGAAGAGCCAGTACCGAGCTCTGGCACGGGACAGTGCCCA 4541
QY 151 nAlaLysArgLysTyrGlnGluLysSerLys----- 161
Db 4542 AGCCAAAGCGAAGTACCAGAGGCGCCAGAAAGTTTCGTGCTTCCCTTGTGGCAGGGAG 4601
QY 161 ----- 161
Db 4602 GGAATCCGAAGCCAGTGTGACCTGTCTTGGGTACCAGAGAGTGGGGCTGCTGGGC 4661
QY 162 -----AspLysAspArgAspLysAl 168
Db 4662 CTCCATGCTGTCATCTATACCCCTTTGCCCCCTTTCTGGCAGACAAAGGACCGTGACAAAGC 4721
QY 168 aLysAspLysTyrValArgSerLeuTyrLysLeuPheAlaHisHisLysArgTyrValLe 188
Db 4722 CAAGGCAAGTATGTGGCGAGCTGTGGAAGCTCTTTGCTCACCACCAACCGCTATGTGCT 4781
QY 188 uGlyValArgAlaAlaGlnLeuHisHisGlnHisGlnLeuLeuLeuProGlyLe 208
Db 4782 GGGGTGGGGCTGCGCAGCTACACCAACAGCACCACCAACAGCTCTCTGCTGCCCGCCT 4841
QY 208 uLeuArgSerLeuGlnAspLeuHisGluGluMetAlaCysIleLeu----- 223

Db 4842 GCTGCGGTCACTCAGGACCTGCACGAGGAGATGGCTTGCATCTCTGTAAGCCCCCAGCCCC 4901
QY 223 ----- 223
Db 4902 CGTCCCTGGCCCCCACCCTTGAGCAGCCCTAAGCCAGCCATCAGSCCCAGAGGCAGGA 4961
QY 223 ----- 223
Db 4962 CCAGAAAAATCCATTGCTGGAAAGGTGCTGCCCATGTAAACCACATGAGAACGGGACCTGG 5021
QY 223 ----- 223
Db 5022 GCCAAGGATTGGAACAGGCAACTTACCTCTGAATTTACACTATTTCCAGGGTCTCATTTATT 5081
QY 223 ----- 223
Db 5082 CCAGGGTTTTTATTACATTTCATTGAGCACCTGTTCTGGGCTCTGGATTATACCAGAGAACGA 5141
QY 223 ----- 223
Db 5142 TGGTAGACAAAAACATCTGTCTCAGGGATCTTTTCGTGTTAGTGGAGTGAGAATGTGAGG 5201
QY 223 ----- 223
Db 5202 AGCAGTAAGAGCCATGGAGAAAAATAAAGCAAGAGAAGTGGATCGGGACCTGGGAGCACG 5261
QY 223 ----- 223
Db 5262 GAGGCAAGGAGGAGGTGACAGTTTGCATAGAGTGTATCTGGGNAAGCCTCTTTGAGAGGT 5321
QY 223 ----- 223
Db 5322 GACATTCAAAAGAGGCCCTGAGAGGGGTACGGGAGTGAATCATGGGGCTATTTGGAGAAA 5381
QY 223 ----- 223
Db 5382 GACCATTCAGAAAGGAGGACAGCAATTACAGGCCCTTGAGGTAGGAGAGTACCAGGA 5441
QY 223 ----- 223
Db 5442 CTAAATAGCCAGGAACCAAGTGGTGCCTCTGAGAGTGAGGGAGGGAGAGTACATACAGAG 5501
QY 223 ----- 223
Db 5502 GCTGGAGGAGGAGCGCTCAAGGGCTACTGGGTGATAGAAGGTCTAGCAGGGCCATGGTG 5561
QY 223 ----- 223
Db 5562 AGGACTTTTGGCTCTGGGTGAACAAGAAATGGCATGATCTGACCTCTGTTTTTTTGTTCAT 5621
QY 223 ----- 223
Db 5622 TTTGTTTTAACTTTTTTTTGTGAGTCTGCTCTGCCCCCAGGCTAGAGTGCAGTGG 5681
QY 223 ----- 223
Db 5682 CATGATCTCGGCTTACTGCAACCTCCGCTCCAGGTTCAAGTGAATTCCTCTGCTCAGC 5741
QY 223 ----- 223
Db 5742 CTCCGAGTAGCTGAATACTACGGGCATGCGCCACCAACAGCTAATTTTGTATTTTTT 5801
QY 223 ----- 223
Db 5802 AGTAGAGACGGGGTTTCAACATGTTGCCCAGGCTAGTCTCTAATTTCTGGGCTCAAAAGCG 5861
QY 223 ----- 223
Db 5862 ATTTGCTGCTCTGCTCTCCAAAGTGGCGGATTACAGSCATGAGCCACCATGCCGAGC 5921
QY 223 ----- 223

Wed Aug 10 16:17:25 2005

Db	5922	CCTGACCTCTGTTTAATAAGGCCACTCTGGCTGCTGTGCTGCTCAAAATAGACTTCAGGGAG	5981	Qy	277	ysValThrPheAspGluSerLeuLeuGluGluGluProLeuGluProGlyGluLeuG	297
Qy	223	-----	223	Db	7062	GTGTCACTGTCATGAGTCTGCTTTGAGAGGGTGAACCCGCTGGAGCTGGGAGCTCC	7121
Db	5982	CAAGGACAGAAGCTGGGAGGCCAGAGAGAGGCTGCTTGCATTAATCCAGATCCAAGCTT	6041	Qy	297	InLeuAsnGluLeuThrValGluSerValGlnHisThrLeu	310
Qy	223	-----	223	Db	7122	AGCTGAAACAGCTGACTGTGGAGAGCGTGCAGCACACGTCGCTGGTGGCTTTTGACCTG	7180
Db	6042	TTGGCCAGCTAGGACGGGGAGGTAGCAATGGAGGTGAGCGCGGTGAGTCTGGGGCAG	6101	Qy	310	-----	310
Qy	223	-----	223	Db	7181	GGCTGGCGGGGCTCCACAGACAGACGAGTGTATTGTAGGAGGGCTAGTCTGTGA	7240
Db	6102	GTCTGGAAGGTGAAGCCAGTGGGATTTCCCTATGGATTGGAAGTGGGCGGTGAATAAGA	6161	Qy	310	-----	310
Qy	223	-----	223	Db	7241	GACTGTCCACAGAGCTGTACCAGGTGGCCGGGCTTCTTGGCTCTACAGGATGACAC	7300
Db	6162	GGAGTCAGGGGTCACTCTGGGGATTTGGCTTGAGCAGCTGGAAGATGGAGTGGCTGTTA	6221	Qy	310	-----	310
Qy	223	-----	223	Db	7301	TGGACCTGGGTTGAGGGGGCAGGAGGCTCGGTTCTAATGTGCTGCCCTTCTCTGGGTGA	7360
Db	6222	ACTTATGTAGGAAGCTGTGGGAAGAGAGGTTTAGGAGACAAGGATAGCACTTCAATTT	6281	Qy	311	-----	311
Qy	223	-----	223	Db	7361	GGCTGACCTCAGTGCACAGATGAGCTGGCTGTGCCACCGAGATGTGTTCAGGCGGCAGG	7420
Db	6282	ATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTT	6341	Qy	329	luMetValThrGlnLeuGlnGlnGluLeuArgAsnGluGluAsnThrHisProArgG	349
Qy	223	-----	223	Db	7421	AGATGGTTAGCAGCTGCAACAGAGAGCTCCGGAATGAAGAGGAGAACACCCACCCCGGG	7480
Db	6342	CAGGCTGGAGTGCAGTGGCGGATCTTGGCTCACTGCACCTCCAGCTCCAGGCTCAAG	6401	Qy	349	lu-----	349
Qy	223	-----	223	Db	7481	AGCGTGAGTGGGCCCCCTGCTGCAGCAGCTCTCTGGGCTCCTCTCTCTACTACCC	7540
Db	6402	CGATTTCTTGCTCAGCTCCGAGTAGCCAAAGTAGCTGGGACTCAGGCACTGTCGCCAC	6461	Qy	349	-----	349
Qy	223	-----	223	Db	7541	TAACTGTCTGTGCTAGCGCGCCGACAGCGCCCTTATTCTTCATCCACCTCCACCC	7600
Db	6462	CATGCTCGCTAAATTTTGTATTGCTTTTTCAGTAGAGATGGGTTTTCACACGTTAGC	6521	Qy	350	-----	350
Qy	223	-----	223	Db	7601	GCCCCCTGCTGAGGGTGCAGCTGCTGGGCAAGAGGCAAGTGTCTGAAGAAGCACTGCAG	7660
Db	6522	CAGGCTGGTCTCGAACTGACCTCAGGCAATCCACCOCCTCGACCTCCAGTGTGGTAT	6581	Qy	366	GlyLeuGlnValAlaLeuCysSerGlnAlaLysLeuGlnAlaGlnGlnGluLeuGln	385
Qy	223	-----	223	Db	7661	GGGCTGCAGGTAGCTGTGCAGCCAGGCCAAGCTGCAGGCCCGCAGGAGGTGCTGCAG	7720
Db	6582	TATAGCGGTGAGCCACTGTGCTGCTGCCACTGGATCCTTATTACAACTGCCAGTGCCT	6641	Qy	386	ThrLysLeuGluHisLeuGlyProGlyGluProProValLeuLeuLeuGlnAspAsp	405
Qy	223	-----	223	Db	7721	ACCAAGCTGGAGCAGCTGGGCCCCCGGAGGCCCTCTGTCTCTCTCTGATGATGAC	7780
Db	6642	CTTATATATATCAGGAATAGAAGATTAGGGAGAGGTTAAATAATTTGCTAGAGTGCCA	6701	Qy	406	ArgHisSerThrSerSerSer-----	412
Qy	223	-----	223	Db	7781	CGGCACTCCACGTCGTCTCTC-GGTGAGCTGCCCATCCGCGGCCGCTGCCGCCACCCGC	7839
Db	6702	TGGCTAGCTCGAAGTGAGCGAGGGGTCAACCCAGCCCTGACTCCAAACCCAGGGTCTTA	6761	Qy	412	-----	412
Qy	223	-----	223	Db	7840	CTGCCACCTGGGGTGCCTCCTCATTTTTCGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCC	7899
Db	6762	GGCTGNACTGCCAGCTTGCCAGCTGAGGCTCCCTGACTGGGGATCCCGTCTCGG	6821	Qy	413	-----	413
Qy	224	-----	241	Db	7900	GCTGAGCTGTGCTCCCTGGGCTCAGGAGCAGGAGCGAGAGGGGGAAGGACACCCACGCTG	7959
Db	6822	GGGAGGAGGAGATCTGCAGGAATACCTGGAGATTACGACCTGGTGGTGGATGAGGT	6881	Qy	425	GluIleuLysSerHisIleSerGlyIlePheArgProLysPheSer-----	440
Qy	241	lValAlaIleHisArgGluMetAlaAlaAlaAlaAlaAlaAlaAlaAlaAlaAlaAlaAlaAla	261	Db	7960	GAGATCCTTAAGAGCCACATCTCAGGAATCTTCGCCCCCAAGTTCTCGGTGATGCGGCC	8019
Db	6882	GGTGGCCATTCACCGGGAGATGGCTGAGCTGCTGCCCGCATCCAGCCTGAGGCTGAGTA	6941	Qy	440	-----	440
Qy	261	rGlnGlyPheLeuArgGlnTyr-Gly-----	269	Db	8020	CAGCTGGGCCCCCTTACTGTTGTTTCGAGTTTAATCACTGGGATGCTCCTAGAGGGA	8079
Db	6942	CCAAGCTTCTGCGACAGTATGGTAAAGCCCGTCTGCTCTCTCTCTCTCTCTCTCTCTCTCT	7001	Qy	440	-----	440
Qy	270	-----	277	Db	8080	GGCTCTGCCAGGCTGCTTGTATTGGGAAGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	8139
Db	7002	GCTGGCTGTCCACTGAGGGGGCGCTGTCCCCCAGGTCGGCAGCTGAGCTGCCACCTCCACCT	7061				

QY 440 ----- 440
Db 8140 GATGTCCAGACCTGCCCCCTGTGACCCCTCCCTTTCCATGCCCCCAGTGTGCTAAAGG 8199
QY 440 ----- 440
Db 8200 GACCAGCAACTCGACTATTCCATGGCTCTCCCTGCTTCAGAGGGGTGGGGCCCTGTG 8259
QY 440 ----- 440
Db 8260 GCCTGGAGGAGGACACAGCTTGGTTTGGGTCTTCCTGCTGGGCTTCCTTCCAG 8319
QY 440 ----- 440
Db 8320 CTCTGCCAGCGTGAGCCTGGGCCAGTCCAGTGCCCACTCCAGGGGCTGTGGATGGCTC 8379
QY 440 ----- 440
Db 8380 TGCATGCCACTCCATGGTTGTAAGGGCTGAGGGCATATAGGGGGAGAGAGACCCCG 8439
QY 440 ----- 440
Db 8440 GCTGCCCCACGGCTCTTCAACAAGGTGGTTAAGTGACTCTCTCGATCCTCCCTTGC 8499
QY 440 ----- 440
Db 8500 CCAGTCCCTCCACCGCTGCAGCTCATTCGGAGGTGCAGAACCCCTGCATGAGCAGCT 8559
QY 440 ----- 440
Db 8560 GTGTACCAAGGGGCCATCCGAGGGCAGAGGTGGCTGAGTGTGTCNACTCTGGGA 8619
QY 440 ----- 440
Db 8620 CTTCTGTGTGGGAGAGCCAGGCAAGCAGGAGTACGTGCTGCTGTGGATGG 8679
QY 440 ----- 440
Db 8680 TCTGCCCGGCACATTTCATCATCAGTCTTGATGTGAGTGGGCTGGACCCGAGCCTT 8739
QY 440 ----- 440
Db 8740 CCAGGCTCACTTCCCTCCCTTCCCTTCCCAAGGGAATGGCCTTTGAGGTAGG 8799
QY 440 ----- 440
Db 8800 GGTAGCTGCCAGGTCTTGGATGCTCTCCTAGCAGGCTGGCTGGAAGGGCCACAGAGAC 8859
QY 440 ----- 440
Db 8860 CACCTGTCTGCAACAAATAGAGGCTTAAAGTGTGAGTCTCTCCCTGTGGGGCAGCA 8919
QY 440 ----- 440
Db 8920 GGATGTATGTGCCATCAGATGGCATCTTTTCTGGAGGTCTCTGTGCCCTGTGCTCTGGG 8979
QY 440 ----- 440
Db 8980 CAGGCCCTTTCTCCCTGCTGCTCTCTCCCTTCCCTCCAGGGCTCAGGCCCTCAGA 9039
QY 441 -----
Db 9040 ATGGAGGCTGTGACCCCGGTGCCCTGCTGCTGAGAACCTGTACCGACTGGAAAGGGAA 9099
QY 449 GlyPheProSerIleProLeuLeuIleAspHisLeuLeuSerThrGlnProLeuThr 468
Db 9100 GGCCTTCTACATCTCTTCTCTATGACCACCTACTAGCACCCAGACCCAGCCCTCACC 9159
QY 469 LysLysSerGlyValValLeuHisArgAlaValProLys ----- 481
Db 9160 AAGAAGAGTGTGTGCTCTGCACAGGGCTGTGCCAAGGTGAGCCTGCACCCAGCCTGG 9219
QY 481 ----- 481

Db 9220 CCATGCCCACCTGTGGCAGGGCTTGGGAGTGTGGGTGACGCCCAACCCAGGCTGTGAGCA 9279
QY 481 ----- 481
Db 9280 GAAAGGCTTTCCAGGGCCCTCCGTCTACATACAAGATGCAGAGTGAGTACCCTCAGGC 9339
QY 481 ----- 481
Db 9340 CAGCCTTGCTTAGGTTTGAATGTCAAGGCCACTCTATATGCCATGGGCTGTACACACCA 9399
QY 481 ----- 481
Db 9400 GGTGTGCTTACTGCTCAGGGCACCCTGCCTGCACCCCGTAGTCATCTCAGTGTGCTCC 9459
QY 481 ----- 481
Db 9460 CCAGTGGTCCACCCCTGCTCACATATGAGGGCGCCAAAAATGAGGACACAGCCCTT 9519
QY 481 ----- 481
Db 9520 CTAAGGGCCAGCACCCCTTTTCTTCAGACTTCTGATCCCTGTCTCTCTTCCCCAG 9579
QY 482 AspLysTrpValLeuAsnHisGluAspLeuValLeuGlyGluGlnIleGlyArg ----- 499
Db 9580 GACAAGTGGTGTCTGAACCATGAGGACCTGCTGTGGTGAGCAGATTGGACG-GGTGAG 9638
QY 499 ----- 499
Db 9639 TGGCGCTCTGCTGCGCTCTTGTGCTGGGACTTCTCTCTGAGTGGCGCTGGGCCCCCT 9698
QY 499 ----- 499
Db 9699 GCCTTACACCCAGAAACCTCCCTGCCCATCTGATTTCCCACTTTGTACCCGACTCCCT 9758
QY 499 ----- 499
Db 9759 GCCAGGCCCCACACACACCATCTCTCCAGGAAACGGGACAGTACCTACGCTGAATACTC 9818
QY 499 ----- 499
Db 9819 CCAGCAGACAGCTCTGCAGCACCTTGACCTCATACCCCAACCCAGCGCCGCCCATCG 9878
QY 499 ----- 499
Db 9879 AGCTCTTGTGTGCACGCGAGGAGACACCTGTTACTGTAAAGCCATAAGATACCTGTTTAG 9938
QY 499 ----- 499
Db 9939 GGAAGAAGTCACTGTCTTAAATCAGATGCTTTTCAAACCCAGGGAGAGTGATTTT 9998
QY 499 ----- 499
Db 9999 GGATTTCCATGTCACTTCTCTCAGGAAGGGTGGCACATCGAGGCAACTTTTCCCTGCCTG 10058
QY 499 ----- 499
Db 10059 CCCATGTGTCTCTAGGTTTCCCAAGCGAGGGTCAAACTCCAGAGAGCCTGGGTGGAGG 10118
QY 499 ----- 499
Db 10119 GGTCCGAACACGGGGGCCCTCACCCAGGGGTAGGAAGCAGATGGGTAGGAAGCGGAGA 10178
QY 500 ----- GlyAsnPhe 502
Db 10179 AGAAGTGGGACTGGGAAGGCCGTGGTAGGAGCCCAAGACCGTTTTCAGGGGAACCTT 10238
QY 503 GlyGluValPheSerGlyArgLeuArgAlaAspAsnThrLeuValAlaValLysSerCys 522
Db 10239 GGCGAAGTGTTCAGCGGACGCTGCGAGCGCACACACCTGGTGGCGGTGAAGTCTTGT 10298
QY 523 ArgGluThrLeuProAspLeuLysAlaLysPheLeuGlnGluAla ----- 538
|||||

Db 10299 CGAGAGCGCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGCAGGCTGGTGATA 10358
Qy 538 ----- 538
Db 10359 AACTAATGATACCACGGGTCCCGCATACACAGAGTTTACACTGCATGCCACAGTGTGAA 10418
Qy 538 ----- 538
Db 10419 GTGCTTGACCAACGCTGGTGTGTTAGTCTCTGAGGCCCCCAATTGCGGGTAGTACCC 10478
Qy 538 ----- 538
Db 10479 TTATAGTCCGAAGGTAGAGGTGCCCAGGTACACGTCCGGGTCTGCTGGCCTTGA 10538
Qy 538 ----- 538
Db 10539 GGCCMAGCTTTTCCCATCATCCCTGGGGGGCCCTGGGAGGGCGGCTGGCCACGTAG 10598
Qy 539 -----ArglleLeuLysGlnTyrSerHisProAsnIleValAr 551
Db 10599 ATCCTGAGCAGCAGTGCCTCCAGGATCTCTGAAGCAGTACAGCCACCCCAACATCTGTGCG 10658
Qy 551 gLeuIleGlyValCysThrGlnLysGlnProIleTyrIleValMetGluLeuValGln-- 570
Db 10659 TCTCATGGTGTCTGCACCCAGACAGCCCATCTACATCGTTCATGGAGCTTGTGCAGGG 10718
Qy 570 ----- 570
Db 10719 TGAGCGGGGCGCTGAGCTCCAGTAGGGCGCGACGCTGGTCAAGTGGCAGCCTTACC 10778
Qy 571 -----GlyGlyAspPheLeuThrPheLeuAr 579
Db 10779 TCAGAGGCTCAGCAGGGGTCTCCCCACCTGCAGGGGGGACTTCTGACCTTCTCCG 10838
Qy 579 gThrGluGlyAlaArgLeuArgValLysThrLeuLeuGlnMetValGlyAspAlaAla 599
Db 10839 CACGAGGGGGCCCGCTCGGGTGAAGACTCTGCTGCAGATGTTGGGGATCAGCTGC 10898
Qy 599 aGlyMetGluTyrLeuGluSerLysCysVleHisArg----- 612
Db 10899 TGGCATGGAGTACCTGSGAGCAAGTGTGATCCACCG-GTGAGTGGGGGTGGCCACG 10957
Qy 612 ----- 612
Db 10958 GSCCCTGCCAACACCCCGCAGAGTCAAGAGGTACCTATACCCCTAGGGCCCCCGCT 11017
Qy 612 ----- 612
Db 11018 GGACCATCAGGCATCAGCTCCAGAGGGGAGTTGGCCTCTGTGTTAGACAGGGGTGCCA 11077
Qy 612 ----- 612
Db 11078 GGGCCGGAGCAGCTTTTGTCTTGGCTTTCCTAGAGTGTTCAGCCAGGGCTGGCAGGC 11137
Qy 613 -----AspLeuAlaAlaArgAsnCy 619
Db 11138 GACTGTTGGCCAAATCAGCCCTGTCCCTGTCTCACCCAGGACCTGGGTCTCGAAGT 11197
Qy 619 sLeuValThrGluLysAsnValLeuLysIleSerAspPheGlyMetSerArgGluAla 639
Db 11198 CCTGGTGACAGAGAAGATGTCTGAAGATCAGTGACTTTGGATGTCCCGAGAGGAAGC 11257
Qy 639 aAspGlyValTyrAlaAlaSerGlyLeuArgGlnValProValLysThrAlaPr 659
Db 11258 CGATGGGTCTATGACGCTCAGGGGCTTCAGACAAGTCCCGTGAAGTGGACCGCAC 11317
Qy 659 oGluAlaLeuAsnTyr----- 664
Db 11318 TGAGGCCCTTAACCTACGTTACCTGCTACCTGGACTCCATGGCCAGAGGCCA 11377
Qy 664 ----- 664
Db 11378 GGCCTGGGTCTGCCGCTGCTCGCCTGGCCCCAGGGAGGTGCATCAAGCTGCCTC 11437

Qy 665 -----GlyArgTyrSerSerGluSerAspValTrpSerPheGlyI 678
Db 11438 ACTCTCCGCTCCTCTGTGAGGCCGCTACTCTCCGAAAGCAGCGTGTGGAGCTTTGGCA 11497
Qy 678 lLeuLeuTrpGluThrPheSerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnG 698
Db 11498 TCTTGCTCTGGGAGACCTTTCAGCTGGGGGCTTCCCTTATCCCAACCTCAGCAATCAGC 11557
Qy 698 lNThrArgGluPheValGluLys----- 705
Db 11558 AGACACGGGAGTTTGTGGAGAGGGTAAGCACCTGTGATGACAGCAGCTCAGGCTGCA 11617
Qy 705 ----- 705
Db 11618 CCCTCTTCCAGATGCTCCAGCGGACTTCTTAACTCCCTTAATGCAACCTTCCCAACA 11677
Qy 705 ----- 705
Db 11678 GGCAGATAAGAATAACCTGGCCAGTGTCTCAGCGCTGTCTATCCAGCACTTTGGGAGGC 11737
Qy 705 ----- 705
Db 11738 TGAGCTGGTGGATCACTTGAGCCAGAGTTCAGATCAGCTTGGACAACACAGTGAAA 11797
Qy 705 ----- 705
Db 11798 CTCCATCTGTACAAAAAATACAAAAATAGACTGGGCGAGGTGCTCACACCTGTAAATCCC 11857
Qy 705 ----- 705
Db 11858 AGCACTTTGGGAGGCGCGAGGCTGGATCACCTGTGTGTCAGGAGTTTGAGACCAGCCAG 11917
Qy 705 ----- 705
Db 11918 ACCAACATGTTGAACCCCATCTCTACTTAAATAATACAAAAATAGCCAGGCATGTCGCA 11977
Qy 705 ----- 705
Db 11978 CGTGCTGTAAATCCCAAGTACTTGGGAGGCTGAGTGGGAGAAATTGCTTGAACCCAGAG 12037
Qy 705 ----- 705
Db 12038 GCGGAGGCTGCAGTGAGCGCAGATTGTGCCACTGCCAGCTGCCGCGACAGAGTGA 12097
Qy 705 ----- 705
Db 12098 AACTCCATCTCAAAAAAACCAAAAAACAAAAAATACAAAAATAGCTGGGTGTGGTGAC 12157
Qy 705 ----- 705
Db 12158 ATGCGCTGTAGTCCCTGCTACTCGGGAGGCTGAGTGGGAGGATCCTGGAGCCCGGA 12217
Qy 705 ----- 705
Db 12218 GGTGGAGTTGCAGTGAGCTGATATGCCACTGCACCCCAACCTGGGTGACAGAGAGA 12277
Qy 705 ----- 705
Db 12278 GAGAGAGACCTTGACTCGAAAAAGAAAAAACCTGGGCGCAGTGGCTCACGCTGTAAAT 12337
Qy 705 ----- 705
Db 12338 TCAACATTTTGGGAGGCTGAGAAAGTGGATCACTTGAGTCTAGGAGTTTGACACTAGCC 12397
Qy 705 ----- 705
Db 12398 TGGCCAACATGGCAAAACCTGTCTCTACTAAAAATACAAAAAATAGCGAGGTGTAGTG 12457
Qy 705 ----- 705
Db 12458 TGCAAGCTGTAAATCCAGCTACTTTGGAGGCTGAGGCACAGAAATCGCTTGAACCTGGG 12517

QY	129	-----	129	Db	4782	GGCGTGGCGCTGCGCAGCTACACCAACAGCAGCAGCTCTCTGCTCCGCGCT	4841
Db	3702	CGGCCCTGGTGGCCACCTGGCCCAATTCCTCGCCCAAAAGATCATCTGATTCAGGG	3761	QY	208	uLeuArgSerLeuGlnAspLeuHisGlnGluMetAlaCysIleLeu-	223
QY	129	-----	129	Db	4842	GCTGCGGTCACTGACAGGACCTGCACAGGAGATGGCTTGCAATCCTGTAAAGCCGCGAGCCC	4901
Db	3762	TGGGCCCAATTTTATAAAGTTTTTGCTGGAACACAGCTATGCCCCCTTTGTTTCATATTGT	3821	QY	223	-----	223
QY	129	-----	129	Db	4902	CGTCCCTGCGCCCAACCTTTGAGCAGCCCTTAAGCCAGCCATCAGGCCAGAGGAGGAGGA	4961
Db	3822	CTGTGACTACAATGACAGAGTTGAGTAATTGTGACAGAGGCTCTATGGCTTACAGCCTA	3881	QY	223	-----	223
QY	129	-----	129	Db	4962	CCCAGAAAATCCATTTGCTGGAAAGTGTGCGCATGTAAACCATGAGAACGGAGCCTGG	5021
Db	3882	AAATATTTATTACTATCTGCGCCCTTTAAGAAAAAGACTGATCTAGTCGAGGAATCTAGC	3941	QY	223	-----	223
QY	129	-----	129	Db	5022	GCCAAGGATTGGAAAACAGGCAACTTACCTCTGAATTACACTATTCCAGGGTCTCATTTATT	5081
Db	3942	TCAGTTACAGATGGGAAACTGAGTTGGCGCTTGCCCAACATATCCAGCACATAAAC	4001	QY	223	-----	223
QY	129	-----	129	Db	5082	CCAGGGTTTTATTACATTTAGTCAGCAGCTGTTCTGGGCTCTGGATTTATACAGAGAACGA	5141
Db	4002	AGGAGAACTGGACGAGAACACTGATCTCGGGGTGTCATCTATTCTTACTACTGCCAAGAACA	4061	QY	223	-----	223
QY	129	-----	129	Db	5142	TGGTAGACAAAAACATCTGCTCAGGGATCTTTCGTGTTAGTGGAGTGAGAAATGTGAGG	5201
Db	4062	TAAATTTGACGAGCCAGTGCAAGTGAAATTGTGGGGGTCTTTGTTAAAGATTGCTAGG	4121	QY	223	-----	223
QY	129	-----	129	Db	5202	AGCACTAAGAGCCATGGAGAAAAAATAAGCAAGAGAGTGGATCGGAGCCTTGGAGGACG	5261
Db	4122	AATTTCCAGTTGGCAATAATGGAGAAATGAAACCAAGCAGAGGGCCCTTCTACATGTGGAG	4181	QY	223	-----	223
QY	129	-----	129	Db	5262	GAGGCAAGGAGGAGGTGACAGTTGTCATAGAGTGATCTGGGAAAGCCTCTTGAGAGGT	5321
Db	4182	CCCCGTGTGACTGCACAGCGCGTGACACCTGCACCTGGCCCTGCTGCCACAGGGCTAC	4241	QY	223	-----	223
QY	129	-----	129	Db	5322	GAATTTCAAAGAGGCCCTTGAGAGGGGTACGGAGTGAATCATGGGGCTATTTTGGAGAAA	5381
Db	4242	CACTGTCACTCCAGGAGGACCGTTGTAGCTGTAGTCTACCTCTTTGGCTCCCAAGG	4301	QY	223	-----	223
QY	129	-----	129	Db	5382	GACCATTCAGAAAGGAGGACAGCAATTACACAGCCCTTGAGTAGGAGATACACGGA	5441
Db	4302	GGTCTGTCTTCAACAGGCTCTGTGATCTTTGACTCTACGTTCAGTCAGAGCCAGCTTTCCAG	4361	QY	223	-----	223
QY	129	-----	129	Db	5442	CTAATAGCCAGAACCAAGTGGTGCCTCTGAGAGTGAGGGGGGAGAGTCATACACAG	5501
Db	4362	AAATCTCCAGGTCTCTTGGCTGACGACAGGACCTTTCCAGGGCTTCAACCCAGGCAAG	4421	QY	223	-----	223
QY	130	-----	ThrHi 131	Db	5502	GCTGGAGGAGGAGCGCTCAAGGGCTACTGGGTGATAGAAGTCTAGCAGGGCCATGGTG	5561
Db	4422	AATCTTCCAACTGGGGACCTGCTGCCCACTGGCTCTCTCTCTCTCCCTAGACCCA	4481	QY	223	-----	223
QY	131	sSerGlnAspIleGluLysLeuLysSerGlnTyrArgAlaLeuAlaArgAspSerAlaG1	151	Db	5562	AGGACTTTGGCTCTGGGTGAAACAGAAATGGCATGATCTGACCTCTGTTTTTTTGTTCAT	5621
Db	4482	CAGCCAGGACATTTGAGAAGCTGAAGAGCCAGTACCGAGCTCTGGCACGGACATGCCCA	4541	QY	223	-----	223
QY	151	nAlaLysArgLysTyrGlnGluAlaSerLys	161	Db	5622	TTTGTTTTAACTTTTTTTTGAGTCAGAGTCTCGCTCTGCCGCCAGGCTAGAGTGCAGTGG	5681
Db	4542	AGCCAAAGCGAGTACCAGGAGGCCAGCAAGAGTTGCTGGCTTCCCTTCTGGCAGGGAG	4601	QY	223	-----	223
QY	161	-----	161	Db	5682	CATGATCTCGGCTTACTGTGCAACCTCCGCTCCAGGTTCAAGTGATTTCCCTCCCTCAGC	5741
Db	4602	GGAATCCGAAGCCAGTGTGACCTGTCTTTGGGTACCCAGAGAGTGGGGCTGCTGGGC	4661	QY	223	-----	223
QY	162	-----	AspLysAspArgAspLysAl 168	Db	5742	CTCCCGAGTAGCTGAAACTACGGGCATGCGCCACACACAGCTAAATTTTGTATTTTT	5801
Db	4662	CTCCATGCTGTATCTATACCCCTTGGCCCTTCTGGCAGACCAAGACCGTGACAAGGC	4721	QY	223	-----	223
QY	168	aLysAspLysTyrValArgSerLeuTyrLysLeuPheAlaHisHisAsnArgTyrValLe	188	Db	5802	AGTAGACGGGGTTTCCACCATGTTGCCAGGGTAGTCTCTAATTTCTTGGGCTCAAAGCG	5861
Db	4722	CAAGGACAAAGTATGTGGCGAGCTGTGGAAAGCTTTTGTCTCACCACCAACCGCTATGTCT	4781	QY	223	-----	223
QY	188	uGlyValArgAlaAlaGlnLeuHisGlnHisHisGlnLeuLeuLeuProGlyLe 208					

Db 5862 ATTTGCTGCTCTGCTCCCAAGTGCCTGGGATTACAGGCATGAGCCACCATGCCAGC 5921
Qy 223 -----
Db 5922 CCTGACCTCTGTTTAAATAAGGCCACTCTGGCTGCTGTGCTGCAAAATAGACTTCAGGGAG 5981
Qy 223 -----
Db 5982 CAAGGACAGAAGCTGGGAGGCCAGAGAGCAGGCTGTTGCCATAATCCAGATCOAAGCTT 6041
Qy 223 -----
Db 6042 TTGGCCAGCTAGGACGGGAGGTAGCAATGGAGGTGAGGCCGCTCAGGTCCTGGGCGAG 6101
Qy 223 -----
Db 6102 GTCTGGAAGGTGAAGCCAGTGGGATTTCCCTATGGATTGGAACTGGGGCGTGAAATAGA 6161
Qy 223 -----
Db 6162 GGAGTCAGGGGTCACTCTGGGGATTGGCCCTGGAGCAGCTGGAAATGGAGTGGCTGTTA 6221
Qy 223 -----
Db 6222 ACTTATGTAGGAAGGCTGTGGGAGAAGAGAGGTTTAGGAGACAAGGATAGCAGTTCAATT 6281
Qy 223 -----
Db 6282 ATTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTT 6341
Qy 223 -----
Db 6342 CAGGCTGGAGTGAGTGGCGCGATCTTTGGCTCACTGCAACCTCCACCTCCAGGCTCAAG 6401
Qy 223 -----
Db 6402 CGATTCTTCTGCTCAGCTCCCGAGTAGCAAGTAGCTGGACTAGCAGGATGTGCCAC 6461
Qy 223 -----
Db 6462 CATGCTGGCTAATTTTGTATTTGCTTTTTCAGTAGAGATGGGTTTTCACCAGTTAGC 6521
Qy 223 -----
Db 6522 CAGGCTGGTCTGAACTGACCTCAGGCAATCCACCGCTCGACCTCCAGTGTGGTAT 6581
Qy 223 -----
Db 6582 TATAGGCGTGAGCCACTGTGCTGGCCCACTGGATCCTTATTACAACCTGCCAGTGCCT 6641
Qy 223 -----
Db 6642 CTTATATATATCAGGAATAGAGATTAGGAGAGGTTAAATAATTTGCTAGAGTGCCA 6701
Qy 223 -----
Db 6702 TGGCTAGCTCGAAGTGAGCAGGGGTCAACCCAGCCCTGACTCCAAACCCAGGGTCTTA 6761
Qy 223 -----
Db 6762 GGCTGAACCTGCCAGCCTTGGCCAGCCTGAGGCTCCCTGACTGGGGATCCCGTCTCGG 6821
Qy 224 -----
Db 6822 GGGCAGGAGGAGATCTCGAGGAATACCTGGAGATTAGCAGCTGTGTGAGGATGAGGT 6881
Qy 241 lvalalallehisargluMetAlaAlaAlaAlaAlaAlaAlaAlaAlaAlaAlaAlaAlaAla 261
Db 6882 GGTGCCATTCAACCGGAGATGGCTGACGTGCTGCCGATCCAGCTCAGGCTGAGTA 6941
Qy 261 xGlnGlyPheLeuArgGlnTyr-Gly----- 269
Db 6942 CCAAGGGCTTCTGCGACAGATGGTAAGCCCCGCTCTTGTCTCTGTGGGCCCGAGGGCT 7001

Qy 270 -----SerAlaProAspValProProC 277
Db 7002 GCTGGCCTGTCCACTGACGGGGCGCTGTCCCCACACAGGTCCGACCTGACGTCCACCCCT 7061
Qy 277 yValThrPheAspGluSerLeuLeuGluGluGlyGluProLeuGluProGlyGluLeuG 297
Db 7062 GTGTCACTTCATGATGAGTCACTGCTTGAGAGGGTGAACCGCTGGAGCGCTGGGAGCTCC 7121
Qy 297 inLeuAenGluLeuThrValGluSerValGlnHisThrLeu----- 310
Db 7122 AGCTGAACGAGCTGACTGTGGAGAGCGTGCAGCACACGTG-GGTGGTGGCTTTGCACCTG 7180
Qy 310 ----- 310
Db 7181 GGCTGGCGGGGCTCCACGACAGACACGAGTGTATGTAGCAGGGCTAGTGTGCGA 7240
Qy 310 ----- 310
Db 7241 GACTGTCCACACAGAGCTGTCAACAGGTGGCGGGCTTGCTTGGCTCTACAGGATGCAC 7300
Qy 310 ----- 310
Db 7301 TGGACCTGGGTTGAGGGGCGAGGGCTCGGTTCTAATGCTGCCCTTCTCTTGGGTGCA 7360
Qy 311 -----ThrSerValThrAspGluLeuAlaValAlaThrGluMetValPheArgArgGlnG 329
Db 7361 GGCTGACCTCAGTGCACAGATGAGCTGGCTGTGGCCACCGAGATGGTGTTCAGGCGGCGAG 7420
Qy 329 luMetValThrGlnLeuGlnGlnLeuAenGluGluAenThrPheProArg 349
Db 7421 AGATGGTTACGACGTGCAACAGGAGCTCCGSAATGAAGAGGAGAACACCCACCCCGGG 7480
Qy 349 lu----- 349
Db 7481 AGCGGTGAGTGGGGCCCTGCTGCAGCAGCCTCCTGGGCCCTCCCTCCTCTACCTACCC 7540
Qy 349 ----- 349
Db 7541 TAACTGCTGTGCTAGCGCCGCGAGCCGAGCCCTTATTCTTCATCCACCTCCACCC 7600
Qy 350 -----ArgValGlnLeuLeuGlyLysArgGlnValLeuGlnGlnAlaLeuGln 365
Db 7601 GCCCTGCCCTGCAAGGTGCTGCTGGCAAGAGGCAAGTGTGCAAGAGACTGCAG 7660
Qy 366 GlyLeuGlnValAlaLeuCysSerGlnAlaLysLeuGlnAlaGlnGlnGlnLeuGln 385
Db 7661 GGCTGCGAGGTAGCGTGTGCAGCCAGGCCAAGCTGCAGGCCCCAGCAGGAGTTGCTGAG 7720
Qy 386 ThrLysLeuGluHisLeuGlyProGlyGluProProValLeuLeuLeuGlnAspAsp 405
Db 7721 ACCAAGCTGGAGCACCTGGGCCCGCGAGCCCGCTGTGCTGCTGCTGCTGCTGAGATGAC 7780
Qy 406 ArgHisSerThrSerSerSer----- 412
Db 7781 CGCCTCCACGTCGTCTC-CGTGAGCTGCCCTCCATCCGCGCGCGCTGCCCGCCACCGGC 7839
Qy 412 ----- 412
Db 7840 CTGCCACCTGGGGCTGGGCTCCTCATTTTCGCCCTCCCTCCCTAAGCGTGGCCACCC 7899
Qy 413 -----GluGlnGluArgGluGlyArgThrProThrLeu 424
Db 7900 GCTGACGTCTGCTCCCTGGCCTCAGGAGCAGGAGGGGGAGGAGACACCCACGCTG 7959
Qy 425 GluIleLeuLysSerHisIleSerGlyIlePheArgProLysPheSer----- 440
Db 7960 GAGATCTTAAAGAGCCACATCTCAGGAATCTTCGCCCCCAAGTTCTCGGTGAGTGGCGCC 8019
Qy 440 ----- 440
Db 8020 CAGCCTGGGGCCCCCTACTGTTGTTGAGTTTAACTACTGGGATGCTCTAGAGAGGA 8079

Db 10239 GGCAGAGTGTTCACGGAGCGCTCGAGCCGACAAACACCCTGTGGGGTGAAGTCTTGT 10298
Qy 523 ArgGluThrLeuProAspLeuLysAlaLysPheLeuGlnGluAla----- 538
Db 10299 CGAGAGCGCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGCGAGTGGTGATA 10358
Qy 538 ----- 538
Db 10359 AACTAATGATACACCGGTCCGCATACACAGAGTTACATGTCATGGCACAGTGTGAA 10418
Qy 538 ----- 538
Db 10419 GTGCTTGACACCGTGTGTGTAGTCTCGAGGGCCCCCATTTGGGGTAGTACCCCC 10478
Qy 538 ----- 538
Db 10479 TTATAGTGCCGAAGGTAGAGGCTGCCCGAGTCAACAGTCCGGGTCTGTCTGGCTTTGA 10538
Qy 538 ----- 538
Db 10539 GGCCAAAGCTCTTTCATCATCTCGGGGGCCCTGGGAGGCGGCTGGCCACGTAG 10598
Qy 539 -----ArglleLeuLysGlnTyrSerHisProAsnIleValAr 551
Db 10599 ATCCTGAGCAGCAGTGCCTCCAGATCCTGAAGCAGTACAGCCCAACATCGTGGC 10658
Qy 551 gLeuIleGlyValCysThrGlnLysGlnProIleTyrIleValMetGluLeuValGln-- 570
Db 10659 TCTCATTTGGTGTCTGCACCCAGAGAGCCCATCTACATCGTCATGGAGCTTGTGCAGGG 10718
Qy 570 ----- 570
Db 10719 TGAGCGGGGGCGCTGAGCTCCAGGTAGGGCGCGCAGCCTGGTCAGGTGGCAGCTTACC 10778
Qy 571 -----GlyGlyAspPheLeuThrPheLeuAr 579
Db 10779 TCAGGAGGCTCAGCAGGGGTCTCCCCACCTGCAGGGGGCGACTTCTGACCTTCTCCG 10838
Qy 579 gThrGluGlyAlaArgLeuArgValLysThrLeuGlnMetValGlyAspAlaAlaI 599
Db 10839 CACGAGGGGGCCCGCTCGGGGTGAAGACTCTGCTGCAGATGTTGGGGATGCAGCTGC 10898
Qy 599 aGlyMetGluTyrLeuGluSerLysCysIleHisArg----- 612
Db 10899 TGGCATGGGTATCTGGAGAGCAAGTGTGCATCCACCG-GTGAGTGGGGGTGGCCACG 10957
Qy 612 ----- 612
Db 10958 GGCCCTGCCAACACCCCGACAGAGTCAAGAGGTACCTATACCCCTAGGGCCCCCGCT 11017
Qy 612 ----- 612
Db 11018 GGACCATCAGGCATCAGCTCCAGAGGGGAGTTGGCCCTCTGTGTAGACAGGGGTGCCA 11077
Qy 612 ----- 612
Db 11078 GGGCGGGGAGCAGCTTTTGTCTTGGCTTCTTAGAGTGTTCAGCCAGGGCTGGGCAGGC 11137
Qy 613 -----AspLeuAlaAlaArgAsnCy 619
Db 11138 GACTGTTGGCCAAATAGACCCCTGCCCTGTCTACCCAGGAGCCTGGCTGCTCGAACTG 11197
Qy 619 sLeuValThrGluLysAsnValLeuLysIleSerAspPheGlyMetSerArgGluGluAl 639
Db 11198 CCTGTGCACAGAGAAGAAATGCTCTGAAGATCAGTACTTTGGGATGTCCTCCGAGAGGAGC 11257
Qy 639 aAspGlyValTyrAlaIaSerGlyLeuArgGlnValProValLysThrAlaIaPr 659
Db 11258 CGATGGGTCTATGCAGCCTCAGGGGGCTCAGACAAGTCCCGCTGAAGTGGACCGCACC 11317
Qy 659 oGluAlaLeuAsnTyr----- 664
Db 11318 TGAGGGCCCTTAACTACCGTACCTAGTCCCTGTCTACTAATAAATAACAAAAATTAGCGAGGTGTAGTGG 12457

Qy 664 ----- 664
Db 11378 GGCTGGGTCTCGCGCTCGCTCGCCCTGGCCAGGAGGTGCACTCACGCTGCCTC 11437
Qy 665 -----GlyArgTyrSerSerGluSerAspValTyrPheGlyI 678
Db 11438 ACCTCTCGCTCCTCTGCAGGGCGCTACTCTCCGAAAGCGAGTGTGGAGCTTTGGCA 11497
Qy 678 lLeuLeuTyrGluThrPheSerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnG 698
Db 11498 TCTTGTCTGGGAGACCTTCAGCCTGGGGGCTTCCCTATCCCAACTCAGCAATCAGC 11557
Qy 698 lThrArgGluPheValGluLys----- 705
Db 11558 AGACAGGGAGTTTGTGGAGAAGGTAAGCACCTGTGTATGATCAGACGACCTCAGGCTGCA 11617
Qy 705 ----- 705
Db 11618 CCCTCTTCAGATGCTCCAGCCGAGCTCTTCTAACTCCCTTAATGCCAACCTTCCCA 11677
Qy 705 ----- 705
Db 11678 GGCAGAAATAAGTAACCTGGCCAGTTGCTCAGCCCTGTCTATCCAGCAGCTTTGGGAGGC 11737
Qy 705 ----- 705
Db 11738 TGAGCTGGGTGGATCACTTGAGCCAGGAGTTCAGATCAGCTTGGACAAACACAGTGA 11797
Qy 705 ----- 705
Db 11798 CTCCATCTGTACAAAAATAACAAAAATAGACTGGGCACGGTGGCTCACCTGTAAATCCC 11857
Qy 705 ----- 705
Db 11858 AGCAGCTTTGGGAGCGCAGCAGGTGATCACTGTGGTCAGGAGTTTGAGACAGCCAG 11917
Qy 705 ----- 705
Db 11918 ACCAACATGTTGAACCCCATCTCTACTAAAAATAACAAAAATAGCCAGGATGTTGGCA 11977
Qy 705 ----- 705
Db 11978 CGTGCCTGTAAATCCCAGTACTTTGGAGGCTGAGGTGGGAGAATTTGTTGAACCCAGGAG 12037
Qy 705 ----- 705
Db 12038 GCGGAGGCTGCACTGAGCCGAGATTGTGCCACTGCACCTCCAGCTGGGCGACAGAGTGA 12097
Qy 705 ----- 705
Db 12098 AACTCCATCTCAAAAAAACCAAAAAACAAAAATAACAAAAATAGCTGGTGTGTGAC 12157
Qy 705 ----- 705
Db 12158 ATGCGCTGTAGTCCCTGTCTACTCGGAGGCTGAGGTGGGAGGATCACTGGAGCCCGGA 12217
Qy 705 ----- 705
Db 12218 GGTGGAGGTTGCAGTGAGTGAGATCATGCCACTGCACCCCAACCTGGGTGACAGAGAGA 12277
Qy 705 ----- 705
Db 12278 GAGAGAGACCTTGACTCGAAAAAGAAAAAACCTGGGCGCAGTGGCTCACGCTGTAAAT 12337
Qy 705 ----- 705
Db 12338 TCAACATTTTGGAGGCTGAGGAAGTGGATCATCTTAGTCTAGGAGTTTGACACTAGCC 12397
Qy 705 ----- 705
Db 12398 TGCCCAACATGGCAAAACCTGTCTCTACTAATAAATAACAAAAATTAGCGAGGTGTAGTGG 12457

```
QY 705 ----- 705
Db 12458 TGCAAGCTGTAATCCAGCTACTTGGAGGCTGAGGCACAGAATCGTTGAACCTGGG 12517
QY 705 ----- 705
Db 12518 AGGTGGAGGTTCAGTGAGCTGAGATCACCACCTGCATTCACGCGTGGTGACAGACA 12577
QY 705 ----- 705
Db 12578 AGACTCCATCTCAGAAAAGAAAAAATAAGATATCCCTGTAGCTACTACTGAGTG 12637
QY 705 ----- 705
Db 12638 AGCACCTGGTCTGTAGTGCATGTTATTTTCATTTGCTCATCATATGTTGTGTA 12697
QY 705 ----- 705
Db 12698 GGGATTAAATATGCTCTTCTCAGATGGAAAAACAGGCTGGCAGAGGGACACAGTAGC 12757
QY 705 ----- 705
Db 12758 ACGTGTAGGATTAGGATCAGAACCCAGGCTCTTTGTCCTTTGGGCTTGTGGAGAA 12817
QY 705 ----- 705
Db 12818 CAGTGCATCCTTCAGAACAGTGCAATCTTAAGCAGCTCCTATGCTCATGGTATCCCCAG 12877
QY 705 ----- 705
Db 12878 AGTCTGGGAGGACCTCAACTCCTCTCATGCTGGTGTGTGCTCTCTCACA 12937
QY 706 GlyGlyArgLeuProCysProGluLeuCysProAspAlaValPheArgLeuMetGluGln 725
Db 12938 GGGGGCGCTGTGCGCTGCCAGAGCTGTCTCTGATCGCGTTCAGGCTCATGGAGCAG 12997
QY 726 CysTrpAlaTyrGluProGlyGlnArgProSerPheSerThrIleTyrGlnGluLeuGln 745
Db 12998 TGCTGGGCTATGAGCTGGCAGCGGCCAGCTTCAGACCATCTACAGGAGCTGCAG 13057
QY 746 SerIleArgLysArgHisArg 752
Db 13058 AGCATCCGAAAGCGCATCGG 13078

RESULT 5
US-08-306-691B-35
; Sequence 35, Application US/08306691B
; Patent No. 5734039
; GENERAL INFORMATION:
; APPLICANT: Calabretta, Bruno
; APPLICANT: Skorski, Tomasz
; TITLE OF INVENTION: ANTISENSE
; TITLE OF INVENTION: OLIGONUCLEOTIDES TARGETING COOPERATING ONCOGENES
; NUMBER OF SEQUENCES: 55
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Seidel, Gonda, Lavorigna & Monaco, P.C.
; STREET: Two Penn Center, Suite 1800
; CITY: Philadelphia
; STATE: Pennsylvania
; COUNTRY: U.S.A.
; ZIP: 19102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/306,691B
; FILING DATE: September 15, 1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
```

```
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 8321-8
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
TELEX: No. 5734039e
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 3623 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-306-691B-35

Alignment Scores:
Pred. No.: 9.85e-51 Length: 3623
Score: 624.50 Matches: 138
Percent Similarity: 53.79% Conservative: 68
Best Local Similarity: 36.03% Mismatches: 128
Query Match: 16.10% Indels: 49
DB: 1 Gaps: 10

US-10-660-763-2 (1-752) x US-08-306-691B-35 (1-3623)
QY 405 AspArgHisSerThrSerSerSerGluGlnGluArgGluGlyArgThrProThrLeu 424
Db 514 GAGAAACACTCTCGTACCATGGGCTGTGTCCGCAATGCCGTGATATCCG----- 567
QY 425 GluLeuLeuSerHisIleSerGlyIlePheProLysPheSer----- 440
Db 568 -----CTGACGACGGGATCAATGGGACGCTTCTTGGTGGTGAGAGTGAGAGCAGTCT 621
QY 440 ----- 440
Db 622 ACCCAGAGTCCATCTCGCTGAGATACGAGGGGTGTACCATTTACAGGATCAACACT 681
QY 441 -----AsnLeuTyrArgLeuGluGlyGluGlyPheProSerIleProLeuLeu 456
Db 682 GCTTCTGATGGCAAGCTCTACGTCCTCTCCGAGAGCCGCTTCAACACCCCTGGCCAGTTG 741
QY 457 IleAspHis-----LeuLeuSerThr-----GlnGlnProLeuThr 468
Db 742 GTTCATCATCTTCAACGGTGGCCGCGCTCATCACCGCTCCATTATCCAGCCCA 801
QY 469 LysLysSerGlyValValLeuHisArgAlaValProLys-----AspLysTrpValLeuAen 487
Db 802 AAGCGCAACAAGCCCACTGTCTATGTGTGTCTCCCACTACGACAAGTGGGAGATGGAA 861
QY 488 HisGluAspLeuValLeuGlyGluGlnIleGlyArgGlyAsnPheGlyGluValPheSer 507
Db 862 CGCAGCGACATCACCATGAAGCAGCAGCTGGCGGGGCGGAGTACGGGAGGTGTACGAG 921
QY 508 GlyArgLeuArgAlaAspAsnThrLeuValAlaValLysSerCysArgGlu---ThrLeu 526
Db 922 GCGCTGTGGAGAAATACAGCTGACGGTGGCGGTGAAGACCTTGAAGACGAGGACCATG 981
QY 527 ProProAspLeuLysAlaLysPheLeuGlnGluAlaArgIleLeuLysGlnTyrSerHis 546
Db 982 GAGGTGGAA-----GAGTTCTTGAAGAAGCTGCAGTGCATGAAGAGATCAAAACAC 1032
QY 547 ProAsnIleValArgLeuIleGlyValCysThrGlnLysGlnProIleTyrIleValMet 566
Db 1033 CTTAACCTAGTCAGCTCTCTGGGGTCTGCACCGGGAGCCCGCTTATATCATCACT 1092
QY 567 GluLeuValGlnGlyGlyAspPheLeuThrPheLeuArgThrGluGlyAlaArgLeuArg 586
Db 1093 GAGTTTCATGACCTACGGAACCTCTCTGGACTACCTGAGG---GAGTGCACACGGCAGGAG 1149
QY 587 ValLys-----ThrLeuLeuGlnMetValGlyAspAlaAlaGlyMetGluTyrLeu 604
Db 1150 GTGAACGCCGTGGTGTCTGTATATGGCCACTCAGATCTCGTCAGCCATGGAGTACCTA 1209
```


Wed Aug 10 16:17:25 2005

```

Db      1534 GAAACAATG 1542
RESULT 7
US-09-949-016-3759
; Sequence 3759, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3759
; LENGTH: 5763
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-3759

Alignment Scores:
Pred. No.:      3,61e-50      Length:      5763
Score:          622.00      Matches:    158
Percent Similarity: 48.67%      Conservative: 79
Best Local Similarity: 32.44%      Mismatches: 136
Query Match:    16.04%      Indels:    114
DB:              4          Gaps:       17

US-10-660-763-2 (1-752) x US-09-949-016-3759 (1-5763)
Qy      360 LeuGlnGluAlaLeu-----GlnGlyLeuGlnVal 369
Db      454 CTGAGAGAGCCCTTCAGCGGCCAGTAGCATCTGACCTTGAGCCTCAGGGCTCAGTGAA 513
Qy      370 AlaLeuCysSerGlnAlaLysLeuGlnAlaGlnGlnGlnLeuGlnThrLysLeuGlu 389
Db      514 GCC-----GCTCGTTGGAACCTCCCAAGGAAACCTTC- 546
Qy      390 HisLeuGlyProGlyProProProValLeuLeuGln----- 403
Db      547 ---GCTGAGCCAGTGAAATGACCCCAACCTTTTCGTGTGACTGTATGTTTGTGCC 603
Qy      404 -----AspAsp-----Arg 406
Db      604 AGTGAGATACACTCTAAGCATAAAGTGAAAGCTCCGGTCTTAGGCTATAAT 663
Qy      407 HisSerThrSerSerSerGluGlnGluArgGluGlyArg----- 420
Db      664 CACAATGGGAATGTTGTGAGCCCAACCAACCAATATGCCCAAGGCTGGTCCCAAGCAAC 723
Qy      421 -----ThrPro-----ThrLeuGlu----- 425
Db      724 TACATCACCCAGTCAACAGTCTGGAGAAACACTCCTGTACCATTGGCCCTGTGTCGCG 783
Qy      426 -----IleLeuLysSerHisIleSerGlyIlePheArgProLysPheSer 440
Db      784 AATGCGCTGAGTATCTGTGAGCAGCGGATCAATGGCAGCTTCTTGGTGGTGAGAGT 843
Qy      440 ----- 440
Db      844 GAGAGCAGTCTGGCCAGAGGTCCATCTCGCTGAGATACGAGGAGGGGTGATACATTAC 903
Qy      441 -----AenLeuTyraArgLeuGluGlyGluGlyPheProSer 452
Db      904 AGGATCAACACTGCTTCTGTATGCGAAGCTCTACGTTCTCTCCGAGAGCGGCTTCAACACC 963
```

```

Qy      453 IleProLeuLeuIleAspHis-----LeuLeuSerThr---Gln 464
Db      964 CTGCCCGAGTTGGTTTCATCATTTCAACGGTGGCGCAGCGGGCTCATCCACCGCTCCAT 1023
Qy      465 GlnProLeuThrLysLysSerGlyValValLeuHisArgAlaValProLys---AspLys 483
Db      1024 TATCCAGCCCAAGCGCAACAGCCACCTGTCTATGGTGTGTCCTCCCACTACGACAAG 1083
Qy      484 TrpValLeuAsnHisGluAspLeuValLeuGlyGluGlnIleGlyArgGlyAsnPheGly 503
Db      1084 TGGAGATGGACCGCACCGACATCACCATGAAGCACAAGCTGGCGGGCGGCTAGTCGG 1143
Qy      504 GluValPheSerGlyArgLeuArgAlaAspAsnThrLeuValAlaValLysSerCysArg 523
Db      1144 GAGGTGTACGAGGGCGTGTGGAAGAAATACAGCCTGACCGTGGCGGTGAGAGACCTTGAAG 1203
Qy      524 Glu---ThrLeuProAspLeuLysAlaLysPheLeuGlnGluAlaArgIleLeuLys 542
Db      1204 GAGGACACCATGGAGGTGGAA-----GAGTTCTTGAAGAAGCTGCAGTCATGAA 1254
Qy      543 GlnTyrSerHisProAsnIleValArgLeuIleGlyValCysThrGlnLysGlnProIle 562
Db      1255 GAGATCAAAACACCTTAACCTGGTGCAGCTCTGGGGTCTGCACCGGGAGCCCGCTTC 1314
Qy      563 TyrIleValMetGluLeuValGlnGlyAspPheLeuThrPheLeuArgThrGluGly 582
Db      1315 TATATCATCATGATTCATGACCTACGGGAACCTCTGGAGTACCTGAGG---GAGTGC 1371
Qy      583 AlaArgLeuArgValLys-----ThrLeuLeuGlnMetValGlyAspAlaAlaAlaGly 600
Db      1372 AACCGCAGGAGGTGAACCGCGTGGTGTGTGTATACATGGCCACTCAGATCTCGTCAGCC 1431
Qy      601 MetGluTyrLeuGluSerLysCysIleHisArgAspLeuAlaAlaArgAsnCysLeu 620
Db      1432 ATGGAGTACTCTGGAGAAAGAAATTCATCCACAGAGATCTTGTGCCCCGAAACTGCGTG 1491
Qy      621 ValThrGluLysAsnValLeuLysIleSerAspPheGlyMetSerArgGluGluAlaAsp 640
Db      1492 GTAGGGGAGAACCATCTGGTGAAGTAGTGTATTTGGCTTGAGCAGGTGTATGACAGGG 1551
Qy      641 GlyValTyrAlaAlaSerGlyGlyLeuArgGlnValProValLysThrAlaProGlu 660
Db      1552 GACACCTACACAGCCCATGCTGGAGCCAAG---TTCCCCCATCAAAATGGACTGCACCCGAG 1608
Qy      661 AlaLeuAsnTyrGlyArgTyrSerSerGluSerAspValTyrSerPheGlyIleLeuLeu 680
Db      1609 AGCCTGGCCTACAAACAAAGTTCTCCATCAAGTCCGAGCTCTGGGCATTTGGAGATTGCTT 1668
Qy      681 TrpGluThrPheSerLeuGlyAlaSerProTyrProAsnLeuSerAsnGlnThrArg 700
Db      1669 TGGGAATTTGCTACCTATGTCATGTCCTTACCCTGGGAATTTGACCTGTCCAGGTTGAT 1728
Qy      701 GluPheValGluLysGlyArgLeuProCysProGluLeuCysProAspAlaValPhe 720
Db      1729 GAGCTCTAGAGAAGGACTACCGCTGGAGCGCCCAAGAGGTGCCCCAGAGAAGGTCTAT 1788
Qy      721 ArgLeuMetGluGlnCysTrpAlaTyrGluProGlyGlnArgProSerPheSerThrIle 740
Db      1789 GAATCATGGAGCATGTTGGCAGTGGAAATCCCTCTGACCGGCGCTCTCTTGTGTAATC 1848
Qy      741 TyrGlnGluLeuGlnSerIle 747
Db      1849 CACCAAGCCCTTTGAAACAATG 1869

RESULT 8
US-08-604-989A-10
; Sequence 10, Application US/08604989A
; Patent No. 5834208
; GENERAL INFORMATION:
; APPLICANT: Sakano, S.
; TITLE OF INVENTION: No. 5834208e1 Tyrosine Kinase
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
;
```

ADDRESSER: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/604,989A
FILING DATE: February 23, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Charles E. Miller
REGISTRATION NUMBER: 24,576
REFERENCE/DOCKET NUMBER: 1920-026
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 1521 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
ORIGINAL SOURCE:
ORGANISM: human
STRAIN: UT-7
US-08-604-989A-10

Alignment Scores:		
Pred. No.:	1,176-49	Length:
Score:	607.50	Matches:
Percent Similarity:	49.21%	Conservative:
Best Local Similarity:	34.31%	Mismatches:
Query Match:	15.66%	Indels:
DB:	2	Gaps:
		17
		1521

US-10-660-763-2 (1-752) x US-08-604-989A-10 (1-1521)

Qy	272	ProAspValProProCysValThrPheAspGluSerLeuLeuGluLysA---GlyGluPro	290
Db	78	CCCCGGCTTCCTCCGAGCGTGACACCCTCCCTCCGCTCAGCCAGATGCCAACGAGGCG	137
Qy	291	LeuGluProGlyGluLeuGlnLeuAsnGlnLeuThrValGluSerValGlnHisThrLeu	310
Db	138	CTGGGCCCCGGCACCCCAAGTGTATCACCAAATGCAGACACACCCGCCCCCAA-	188
Qy	311	ThrSerValThrAspGluLeuAlaValAlaThr-GluMetValPheArgArgGlnGluMe	330
Db	189	-----GCCAGGGAGCTGGCTTCGCCGAAGGGCGACGT	221
Qy	330	tValThrGlnLeuGlnGlnGluLeuArgAsnGluGlnLeuAsnThrHisProArgGluAr	350
Db	222	GGTCAACCATCTGGAGGCC-----TGCGAGAACAAGAGCTGGTACCGGCTCAA	269
Qy	350	gValGlnLeuLeuGlyLysArgGlnValLeuGlnGlnAlaLeuGlnGlnValAl	370
Db	270	GCACACACCAAGTAGCAGGAGGGGCTGCTGCACGTGGGCGCTGCGGGAGCGGGAGGC	329
Qy	370	aLeuCysSerGlnAlaLysLeuGln------AlaGlnG	381
Db	330	CCTCTCCGACAGCCCAGCTCAGCCTCATCGCTGTTCCACGGGAAGATCTCGGGCCA	389
Qy	381	nGluLeuLeuGlnThrLysLeuGluHiLeuGlyProGlyGluProProProValLeuLeu	401
Db	390	GGAGCTCTCCAG-----CAGCTGCAGCTCCCGAGGATGGCGCTGCTCTGT	437

Wed Aug 10 16:17:25 2005

```
Db      1425 CGAAGAGCTG 1434
          :::::||||
RESULT 9
US-09-741-154-1
; Sequence 1, Application US/09741154
; Patent No. 6437110
; GENERAL INFORMATION:
; APPLICANT: BEASLEY, Ellen M. et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; FILE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001061
; CURRENT APPLICATION NUMBER: US/09/741,154
; CURRENT FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1713
; TYPE: DNA
; ORGANISM: Human
US-09-741-154-1
Alignment Scores:
Pred. No.:      1,41e-49      Length:      1713
Score:          607.50      Matches:      156
Percent Similarity: 51.23%      Conservative: 53
Best Local Similarity: 38.24%      Mismatches: 115
Query Match:      15.66%      Indels:      84
DB:                3      Gaps:        15
US-10-660-763-2 (1-752) x US-09-741-154-1 (1-1713)
Qy      378 GlnAlaGlnGlnGluLeuGlnThrLysLeuGlnHisLeuGlyProGly----- 394
Db      288 CGTGTGACGACGAGCTTCTGTGTTCCACGGGAAGATCTCGGGCCAGGAGGCTGTCCA 347
Qy      395 -----GluProPro----- 397
Db      348 GCAGCTGCAGCTCCGAGGATGGCTGTTCTGTGGGGAGTCCGGCGCCACCCCGG 407
Qy      398 -----ProValLeuLeuGlnAspAspArgHisThrSerSerGluGln 414
Db      408 CGACTACGTCCTGTGCGTGAGCTTTGGCGCGAGCTCATCCACTACCGCTGTGTCACCG 467
Qy      415 GluArgGluGlyGlyArgThrPro-ThrLeuGlnLeuLysSerHisLeuSerGly11 434
Db      468 CGA-----CGGCCACCTCACAACTCGAT-----GAGGCGGT 497
Qy      434 ePheArgProLysPheSerAsnLeuTyArgLeuGluGlyGluGlyPheProSerIlePr 454
Db      498 GTTC-----TTCTGCACCTCATGGAC----- 519
Qy      454 oLeuLeuLeuAspHisLeuLeuSerThrGlnGlnProLeuThrLysLysSerGlyValva 474
Db      520 -----ATGGTGGAGCAT-----TACAGCAAGGACAAGGGCGCTAT 554
Qy      474 lLeuHisArgAlaVal-----ProLysAspLys----- 483
Db      555 GTGCACCAAGCTGGTGAGACCAAGCGGAAACACGGGACCAAGTCGGCGGAGGAGGAGCT 614
Qy      484 -----TrpValLeuAsnHisGluAspLeuValLeuGlyGluGlnIleGlyAr 499
Db      615 GGCCAGGGCGGGCTGTTACTGAACCTGCAGCATTTGACATTTGGGAGCACAGATCGGAGA 674
Qy      499 gGlyAsnPheGlyGluValPheSerGlyArgLeuArgAlaAspAsnThrLeuValAlava 519
Db      675 GGAGAGATTTGGAGCTGCTCTCGAGGCTGAGTACCTCGGGGCAAAAG-----GTGCCGT 728
Qy      519 lLysSerCysArgGluThrLeuProProAspLeuLysAlaLys-----PheLeuGlnGluAl 538
Db      729 GAAGAAT-----ATCAAGTGTGATGTGACAGCCCGGCGCTTCTCTGGACGAGAC 776
```



```

US-10-660-763-2 (1-752) x US-09-949-016-5357 (1-2572)
QY 327 ArgGlnGluMetValThrGlnLeuGlnGlnLeuArgAenGluGluGlu----- 343
Db 409 CGGACGGCTGTGCTGCTGCTTAAAGAAAGAAACGAGGATTAATAACAGTTTGGTGCT 468
QY 344 AenThrHisProArgGluArgValGlnLeuLeuGlyLysArgGlnValLeuGlnGluAla 363
Db 469 AATATATCATCTT-----AATTTCTGGATGGATGGNAGTG--GAGGTGCTGTCTCAGCT 521
QY 364 LeuGlnGlyLeuGlnValAlaLeuCysSerGlnAlaLysLeuGlnAlaGlnGlnGlu--- 382
Db 522 GG-AGAAGCTTGCAACAGGCTGTGCCCAATATATCAACCAAGAAATGCTTCAAAGAAC 580
QY 383 -----LeuLeuGlnThrLysLeuGluHisLeuGly----- 392
Db 581 CTCTTCCTCTACTCTCTGAAGACACACAGCGGACCCTTTGGGAACCTGAAGAACTGTGG 640
QY 393 -----ProGlyGluProProValLeuLeuLeuGlnAap 404
Db 641 TCATTGCTTATATGACTACCAACCAAT--GATCCTCAGAACTCGACCTGCGGCCAAC 699
QY 405 AspArgHisSer---ThrSerSerSerGlu-----GlnGluArgGlu 417
Db 700 GAAGAGTACTGCTGCTGGACAGTTCTGAGATTCACTGCTGGAGAGTCCAGGACAGGAAT 759
QY 418 Gly-----Gly-----Gly 419
Db 760 GGTGGTACATAAGAGTATCAGCGGAGACAAAGCTGAAAGAACTCTTTTGGACACAGGC 819
QY 420 ArgThrProThrLeuGluLeuLeuLysSerHisLeuSerGlyLysPhe----- 435
Db 820 AAAGAGGAGGCTTTCATGGTAAAGGATTCAGAGGACTCCAGGACATACACCGTCTCTGTT 879
QY 435 -----Gly----- 435
Db 880 TTCACCAAGGCTGTGTAAAGTGAGACAAATCCCTGTATTAAGCAATTATCATCAAGGAA 939
QY 436 -----ArgProLysPheSerAsnLeuTyArgLeuGluGlyGluGlyPheProSer 452
Db 940 ACAAAATGACAATCTCTAAG-----CGATACATGTGGCTGAAAGATGTGTTCGATTC 993
QY 453 IleProLeuLeuLeuAspHisLeuLeuSerThrGlnGlnProLeuThrLysLeuSerGly 472
Db 994 ATCCCTCTCTCATCACTAT----- 1014
QY 473 ValValLeuHisArgAlaValProLysAspLysTrpValLeuAenHisGluAspLeuVal 492
Db 1015 -----CACCAACATAATGGAGGAGGAAATGGGTGATCGACCCCTCAGAGCTCACT 1065
QY 493 LeuGlyGluGlnIleGlyArgGlyAsnPheGlyGluValPheSerGlyArg---LeuArg 511
Db 1066 TTTGTGCAAGAGATTTGGAGTGGCAATTTGGTTGGTGGTGCATCTGGCTACTGGCTCAAC 1125
QY 512 AlaAspAsnThrLeuValAlaValLysSerCysArgGluThrLeuProAspLeuLys 531
Db 1126 AAGGACAAG-----GTGGCTATCAAAACCATTCGGGAAGGGGCTATGTGCAGAA----- 1173
QY 532 AlaLysPheLeuGlnGluAlaArgIleLeuLysGlnTySerHisProAsnIleValArg 551
Db 1174 GAGGACTTCATAGAGGAGGCTGAAGTAATGATGAAACTCTCTCATCCAAACTGGTGAC 1233
QY 552 LeuIleGlyValCysThrGlnLysGlnProIleTyIleValMetGluLeuValGlnGly 571
Db 1234 CTGTATGGGGTGTGCTGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1293
QY 572 GlyAspPheLeuThrPheLeuArgThrGluGlyAlaArgLeuArgValLysThrLeuLeu 591
Db 1294 GGCTGCTGTGAGATTATCTACGACCCCGGGGACTTTTCTGTCGAGAGACCTGCTG 1353
QY 592 GlnMetValGlyAspAlaAlaAlaGlyMetGluTyLeuGluSerLysCysIleHis 611

```

```

559 LysGlnProIleTyIleValMetGluLeuValGlnGlyGlyAspPheLeuThrPheLeu 578
Db 769 ---CAGGGCTGTACATGTGATGAGCAGTGACCAAGGCAACCTGTTGACTTCTG 825
QY 579 ArgThrGluGly---AlaArgLeuArgValLysThrLeuLeuGlnMetValGlyAspAla 597
Db 826 CGACCCGGGTGAGCCCTCGTGAACACCGCTGAGCTCTGAGCTTCTCTGACGCTG 885
QY 598 AlaAlaGlyMetGluTyIleGluSerLysCysIleHisArgAspLeuAlaAlaArg 617
Db 886 GCCGAGGCTGAGTACCTGAGAGCAAGAGCTTTGTCCACCGACCTGCGCCCGCCG 945
QY 618 AsnCysLeuValThrGluLysAsnValLeuLysIleSerAspPheGlyMetSerArgGlu 637
Db 946 AACATCTGTCTCAGAGGACCTGTTGGCCAGGTCAGCGACTTTGGCTGGCCAAAGCC 1005
QY 638 GluAlaAspGlyValTyIleAlaSerGlyLeuArgGlnValProValLysTrpThr 657
Db 1006 GAGCGGAAGGGCTAGACTCAAGC-----CGGCTGCGCGTCAAGTGGACG 1050
QY 658 AlaProGluAlaLeuAsnTyIleArgTyIleSerSerGluSerAspValTrpSerPheGly 677
Db 1051 GCGCCCGAGGCTCTCAAAACAGGGAAGTTCACCAAGCAAGTCTGCTGAGTGTGGG 1110
QY 678 IleLeuLeuTrpGluThrPheSerLeuGlyAlaSerProTyIleProAsnLeuSerAsnGln 697
Db 1111 GTGCTGCTCTGGAGGCTTCTCATATGAGCGGCTCCGTACCTAAATGTCTCACTGAAA 1170
QY 698 GlnThrArgGluPheValGluLeuGlyGlyArgLeuProCysProGluLeuCysProAsp 717
Db 1171 GAGGTGTCGAGGCGCTGAGAGGAGGTACCGCATGAAACCCCGAGGCTGTCCAGGC 1230
QY 718 AlaValPheArgLeuMetGluGlnCysTrpAlaTyIleGluProGlyGlnArgProSerPhe 737
Db 1231 CCCGTGACCTCTCATGACGAGCTGCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1290
QY 738 SerThrIleTyIleGlnGluLeu 744
Db 1291 CGCAAACTGGCGGAGAGCTG 1311

```

```

RESULT 15
US-09-949-016-5357
; Sequence 5357, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5357
; LENGTH: 2572
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-5357

```

```

Alignment Scores:
Pred. No.: 2,05e-48 Length: 2572
Score: 598.50 Matches: 165
Percent Similarity: 46.98% Conservative: 68
Best Local Similarity: 33.27% Mismatches: 163
Query Match: 15.43% Indels: 103
Gaps: 14

```

```
Db      1354  GGCATGTGCTGGGATGTGTGAGGGCATGGCCCTACTCGAAGAGGCGATGTGTCTATCCAC 1413
Qy      612  ArgAspLeuAlaAlaArgAsnCysLeuValThrGlulysAsnValLeuLysIleSerAsp 631
Db      1414  AGAGACTTGGCTGCCAGAAATTGTTGGTGGAGAAAAACCAAGTCATCAAGGTCTCTGAC 1473
Qy      632  PheGlyMetSerArgGluGluAlaAspGlyValTyrAlaAlaSerGlyLeuArgGln 651
Db      1474  TTTGGGATGACAAGGTTTCGTTCTCGATGATCAGTACACCAAGTTCCACAGGCACCAAA--- 1530
Qy      652  ValProValLysTrpThrAlaProGluAlaLeuAsnTyrGlyArgTyrSerSerGluSer 671
Db      1531  TTCCCGGTGAAGTGGGCATCCCGAGAGGTTTCTCTTCAGTCGCTATAGCAGCAGTCC 1590
Qy      672  AspValTrpSerPheGlyIleLeuLeuTrpGluThrPheSerLeuGlyAlaSerProTyr 691
Db      1591  GATGTGTGGTCATTTGTGTGCTGATGTGGAGGTTTTTCAGTGAAGGCAAAATCCCGTAT 1650
Qy      692  ProAsnLeuSerAsnGlnGlnThrArgGluPheValGluLysGlyArgLeuProCys 711
Db      1651  GAAAAACCGAAGCAACTCAGAGGTGGTGAAGACATCAGTACCGGATTTTCGGTTGTACAAG 1710
Qy      712  ProGluLeuCysProAspAlaValPheArgLeuMetGluGlnCysTrpAlaTyrGluPro 731
Db      1711  CCCCGGTGGCTCCACACACGCTACAGATATGAATCACTCTCGAAGAGAGACCA 1770
Qy      732  GlyGlnArgProSerPheSerThrIleTyrGlnGluLeuGlnSerIle 747
Db      1771  GAAGATCGGCAGCCTTCTCCAGACTGCTGCGTCAACTGGCTGAATTT 1818
```

Search completed: August 10, 2005, 10:21:54
Job time : 520 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 4, 2005, 13:47:46 ; Search time 159 Seconds
(without alignments)
1846.410 Million cell updates/sec

Title: US-10-660-763-2

Perfect score: 3879

Sequence: 1 MGFSSSLCSPQGHVLOQMO.....QRFSTIYQELQSIKRRHR 752

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1752860 seqs, 390397842 residues

Total number of hits satisfying chosen parameters: 1752860

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*

2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*

3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*

4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*

5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*

6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*

7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*

8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*

9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*

10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*

11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*

12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*

13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*

14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*

15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*

16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*

17: /cgn2_6/ptodata/1/pubpaa/US10E_PUBCOMB.pep.*

18: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*

19: /cgn2_6/ptodata/1/pubpaa/US11A_PUBCOMB.pep.*

20: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep.*

21: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*

22: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	3879	100.0	752 13	US-10-003-295-2
2	3879	100.0	752 15	US-10-660-763-2
3	3834	98.8	822 13	US-10-003-295-4
4	3834	98.8	822 15	US-10-660-763-4
5	3620	93.3	820 17	US-10-732-923-13687
6	3620	93.3	820 17	US-10-732-923-13688
7	2635	67.9	824 17	US-10-732-923-13665
8	2571	66.3	898 17	US-10-732-923-13481
9	2570	66.3	873 17	US-10-732-923-13482
10	2561	66.0	873 17	US-10-732-923-13480
11	2561	66.0	1182 17	US-10-732-923-13479

12	2479	63.9	609	17	US-10-732-923-13452	Sequence 13452, A
13	2479	63.9	957	17	US-10-732-923-13461	Sequence 13461, A
14	1980	51.0	477	17	US-10-732-923-13454	Sequence 13454, A
15	1942.5	50.1	774	17	US-10-732-923-13451	Sequence 13451, A
16	1853	47.8	822	9	US-09-886-319A-64	Sequence 64, Appl
17	1853	47.8	822	14	US-10-376-564-64	Sequence 64, Appl
18	1850	47.7	823	17	US-10-732-923-13685	Sequence 13685, A
19	1829.5	47.2	823	9	US-09-886-319A-63	Sequence 63, Appl
20	1829.5	47.2	823	14	US-10-376-564-63	Sequence 63, Appl
21	1534	39.5	292	18	US-10-941-635-69	Sequence 69, Appl
22	1528	39.4	292	16	US-10-664-421-69	Sequence 69, Appl
23	1450	37.4	533	17	US-10-732-923-13473	Sequence 13473, A
24	1450	37.4	634	17	US-10-732-923-13471	Sequence 13471, A
25	1444	37.2	275	16	US-10-763-418-38	Sequence 13561, A
26	1332.5	34.4	879	17	US-10-732-923-13561	Sequence 13523, A
27	1135	29.3	893	17	US-10-732-923-13523	Sequence 13509, A
28	928.5	23.9	378	17	US-10-732-923-13509	Sequence 30, Appl
29	911	23.5	251	15	US-10-464-805-30	Sequence 30, Appl
30	899	23.2	251	8	US-08-987-689A-30	Sequence 30, Appl
31	899	23.2	251	14	US-10-292-524-30	Sequence 42, Appl
32	669.5	17.3	257	10	US-09-823-187-46	Sequence 42, Appl
33	668.5	17.2	257	10	US-09-863-776-42	Sequence 75, Appl
34	661	17.0	258	11	US-09-964-956-75	Sequence 75, Appl
35	661	17.0	258	15	US-10-042-865-100	Sequence 100, App
36	661	17.0	258	15	US-10-072-012-801	Sequence 801, App
37	661	17.0	258	15	US-10-072-012-858	Sequence 858, App
38	657	16.9	256	10	US-09-976-782-40	Sequence 40, Appl
39	657	16.9	257	10	US-09-976-782-29	Sequence 29, Appl
40	657	16.9	257	15	US-10-087-684-100	Sequence 100, App
41	657	16.9	257	15	US-10-218-779-100	Sequence 100, App
42	656	16.9	254	15	US-10-052-648A-43	Sequence 43, Appl
43	655	16.9	2029	16	US-10-746-545-33	Sequence 33, Appl
44	642	16.6	250	15	US-10-074-978A-153	Sequence 153, App
45	642	16.6	280	9	US-09-515-806-15	Sequence 15, Appl

ALIGNMENTS

RESULT 1

US-10-003-295-2

; Sequence 2, Application US/10003295

; Publication No. US20020168741A1

; GENERAL INFORMATION:

; APPLICANT: GAN, Weiniu et al.

; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES

; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: CLO01183DIV

; CURRENT APPLICATION NUMBER: US/10/003,295

; CURRENT FILING DATE: 2001-12-06

; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2

; LENGTH: 752

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-003-295-2

Query Match	100.0%;	Score	3879;	DB	13;	Length	752;
Best Local Similarity	100.0%;	Pred. No.	3.5e-223;				
Matches	752;	Conservative	0;	Mismatches	0;	Indels	0;
						Gaps	0;
Qy	1	MGFSSSLCSPQGHVLOQMOEAEALRLLEGRKMAQRVKSQDREYAGLLHMSLDQSGQS	60				
Db	1	MGFSSSLCSPQGHVLOQMOEAEALRLLEGRKMAQRVKSQDREYAGLLHMSLDQSGQS	60				
Qy	61	RAISPDSPISQSWAEITSTQTEGLSRLLRQHAEDNLNSGPKLSKLLIRERQQLRTYSEQW	120				
Db	61	RAISPDSPISQSWAEITSTQTEGLSRLLRQHAEDNLNSGPKLSKLLIRERQQLRTYSEQW	120				
Qy	121	QQLQBELTKTHSDIEKLKSOYPALARDSNAQKKYQEASKDKDRKAKDKYRSLWLFL	180				
Db	121	QQLQBELTKTHSDIEKLKSOYPALARDSNAQKKYQEASKDKDRKAKDKYRSLWLFL	180				

Db	121	QQLQOELTKTHSODIEKLKSOYRALARDSAQAKRYQEASKDKORDKAKDKYVRSWKLF	180
Qy	181	AHNRYVLGVRAAQLHHQHLLPGLLRSIQDLHEEMACILKEILOEYLEISLVQDE	240
Db	181	AHNRYVLGVRAAQLHHQHLLPGLLRSIQDLHEEMACILKEILOEYLEISLVQDE	240
Qy	241	VVAIHREMAAAARIIOPEAEYQGFRLQYGSAPDVPCVTFDESLLSEGEPLPGELOLNE	300
Db	241	VVAIHREMAAAARIIOPEAEYQGFRLQYGSAPDVPCVTFDESLLSEGEPLPGELOLNE	300
Qy	301	LTVESVQHTLTSVTDELAVATEMVFRRQEMVTQQLQOELNEEENTHPRERVQLLGRQVL	360
Db	301	LTVESVQHTLTSVTDELAVATEMVFRRQEMVTQQLQOELNEEENTHPRERVQLLGRQVL	360
Qy	361	QEALQGLQVALCSQAKLOAQOELLQTKLEHLGEGEPVLLQDDRHSTSSSEQEREGGR	420
Db	361	QEALQGLQVALCSQAKLOAQOELLQTKLEHLGEGEPVLLQDDRHSTSSSEQEREGGR	420
Qy	421	TPTEILKSHISGIFRPKFSNLYRLEGEFPSPILLIDHLLSTQOPLTKKSGVVLHRAVP	480
Db	421	TPTEILKSHISGIFRPKFSNLYRLEGEFPSPILLIDHLLSTQOPLTKKSGVVLHRAVP	480
Qy	481	KDKVLAHEDLVLGEQIGRGNFGEVFSGRRLADNTLVAVKSCRETLPPDLKAKFLQEAR	540
Db	481	KDKVLAHEDLVLGEQIGRGNFGEVFSGRRLADNTLVAVKSCRETLPPDLKAKFLQEAR	540
Qy	541	LKQYSHPNIVRLIGVCTQKQPIYIMELVQGGDFLTLRTEGARLRVKTLLQMWGDAAG	600
Db	541	LKQYSHPNIVRLIGVCTQKQPIYIMELVQGGDFLTLRTEGARLRVKTLLQMWGDAAG	600
Qy	601	MEYLESKCCIHRDLAARNCLVTEKNVLSIDFGMSREADGVYAASGGLRQVPVKWTAPE	660
Db	601	MEYLESKCCIHRDLAARNCLVTEKNVLSIDFGMSREADGVYAASGGLRQVPVKWTAPE	660
Qy	661	ALNYGRYSESDVMSFGILLMETFSLGASPPNLSNQOTREFVEKGGRLPCPELCPDAVF	720
Db	661	ALNYGRYSESDVMSFGILLMETFSLGASPPNLSNQOTREFVEKGGRLPCPELCPDAVF	720
Qy	721	RLMEQCWAYEPQRPFSFTIYQELQSIRKRRH	752
Db	721	RLMEQCWAYEPQRPFSFTIYQELQSIRKRRH	752
RESULT 2			
US-10-660-763-2			
; Sequence 2, Application US/10660763			
; Publication No. US20040063130A1			
; GENERAL INFORMATION:			
; APPLICANT: GAN, Weiniu et al.			
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC			
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES			
; TITLE OF INVENTION: THEREOF			
; FILE REFERENCE: CL001183DIVI			
; CURRENT APPLICATION NUMBER: US/10/660,763			
; CURRENT FILING DATE: 2003-09-12			
; NUMBER OF SEQ ID NOS: 4			
; SOFTWARE: FastSeq for Windows Version 4.0			
; SEQ ID NO 2			
; LENGTH: 752			
; TYPE: PRT			
; ORGANISM: Homo sapiens			
US-10-660-763-2			
Query Match 100.0%; Score 3879; DB 15; Length 752;			
Best Local Similarity 100.0%; Pred. No. 3.5e-223;			
Matches 752; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy	1	MGFSSELCSQGHVGLQOQOAEILRLLEGKRWKMAQRVKSDREYAGLLHHMSIQSGGQS	60
Db	1	MGFSSELCSQGHVGLQOQOAEILRLLEGKRWKMAQRVKSDREYAGLLHHMSIQSGGQS	60
Qy	61	RAISPDSPISQSWAEITTSQTEGLSRLLRQHAEDLNSGPLSKLSLLIRERQQRKTYSEQW	120

Db	61	RAISPDSPISQSWAEITTSQTEGLSRLLRQHAEDLNSGPLSKLSLLIRERQQRKTYSEQW	120
Qy	121	QQLQOELTKTHSODIEKLKSOYRALARDSAQAKRYQEASKDKORDKAKDKYVRSWKLF	180
Db	121	QQLQOELTKTHSODIEKLKSOYRALARDSAQAKRYQEASKDKORDKAKDKYVRSWKLF	180
Qy	181	AHNRYVLGVRAAQLHHQHLLPGLLRSIQDLHEEMACILKEILOEYLEISLVQDE	240
Db	181	AHNRYVLGVRAAQLHHQHLLPGLLRSIQDLHEEMACILKEILOEYLEISLVQDE	240
Qy	241	VVAIHREMAAAARIIOPEAEYQGFRLQYGSAPDVPCVTFDESLLSEGEPLPGELOLNE	300
Db	241	VVAIHREMAAAARIIOPEAEYQGFRLQYGSAPDVPCVTFDESLLSEGEPLPGELOLNE	300
Qy	301	LTVESVQHTLTSVTDELAVATEMVFRRQEMVTQQLQOELNEEENTHPRERVQLLGRQVL	360
Db	301	LTVESVQHTLTSVTDELAVATEMVFRRQEMVTQQLQOELNEEENTHPRERVQLLGRQVL	360
Qy	361	QEALQGLQVALCSQAKLOAQOELLQTKLEHLGEGEPVLLQDDRHSTSSSEQEREGGR	420
Db	361	QEALQGLQVALCSQAKLOAQOELLQTKLEHLGEGEPVLLQDDRHSTSSSEQEREGGR	420
Qy	421	TPTEILKSHISGIFRPKFSNLYRLEGEFPSPILLIDHLLSTQOPLTKKSGVVLHRAVP	480
Db	421	TPTEILKSHISGIFRPKFSNLYRLEGEFPSPILLIDHLLSTQOPLTKKSGVVLHRAVP	480
Qy	481	KDKVLAHEDLVLGEQIGRGNFGEVFSGRRLADNTLVAVKSCRETLPPDLKAKFLQEAR	540
Db	481	KDKVLAHEDLVLGEQIGRGNFGEVFSGRRLADNTLVAVKSCRETLPPDLKAKFLQEAR	540
Qy	541	LKQYSHPNIVRLIGVCTQKQPIYIMELVQGGDFLTLRTEGARLRVKTLLQMWGDAAG	600
Db	541	LKQYSHPNIVRLIGVCTQKQPIYIMELVQGGDFLTLRTEGARLRVKTLLQMWGDAAG	600
Qy	601	MEYLESKCCIHRDLAARNCLVTEKNVLSIDFGMSREADGVYAASGGLRQVPVKWTAPE	660
Db	601	MEYLESKCCIHRDLAARNCLVTEKNVLSIDFGMSREADGVYAASGGLRQVPVKWTAPE	660
Qy	661	ALNYGRYSESDVMSFGILLMETFSLGASPPNLSNQOTREFVEKGGRLPCPELCPDAVF	720
Db	661	ALNYGRYSESDVMSFGILLMETFSLGASPPNLSNQOTREFVEKGGRLPCPELCPDAVF	720
Qy	721	RLMEQCWAYEPQRPFSFTIYQELQSIRKRRH	752
Db	721	RLMEQCWAYEPQRPFSFTIYQELQSIRKRRH	752
RESULT 3			
US-10-003-295-4			
; Sequence 4, Application US/10003295			
; Publication No. US20020168741A1			
; GENERAL INFORMATION:			
; APPLICANT: GAN, Weiniu et al.			
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC			
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES			
; TITLE OF INVENTION: THEREOF			
; FILE REFERENCE: CL001183DIV			
; CURRENT APPLICATION NUMBER: US/10/003,295			
; CURRENT FILING DATE: 2001-12-06			
; NUMBER OF SEQ ID NOS: 4			
; SOFTWARE: FastSeq for Windows Version 4.0			
; SEQ ID NO 4			
; LENGTH: 822			
; TYPE: PRT			
; ORGANISM: Homo sapiens			
US-10-003-295-4			
Query Match 98.8%; Score 3834; DB 13; Length 822;			
Best Local Similarity 91.5%; Pred. No. 1.9e-220;			
Matches 752; Conservative 0; Mismatches 0; Indels 70; Gaps 1;			
Qy	1	MGFSSELCSQGHVGLQOQOAEILRLLEGKRWKMAQRVKSDREYAGLLHHMSIQSGGQS	60

Db 1 MGFSSSELCSPOGHVGLQMQEAEIRLLLEGMRKMAQVRKSDREYAGLLHHMSLQDSGGQS 60
Qy 61 RAISPDPSPISQSWAEITSTQTEGLSRLLRQHAEDLNSGPKSLKSLILIRERQQLRKYTSEQW 120
Db 61 RAISPDPSPISQSWAEITSTQTEGLSRLLRQHAEDLNSGPKSLKSLILIRERQQLRKYTSEQW 120
Qy 121 QOLQELTKTHSDIEKLSQYRALARDSAQAKRYQEAASKDKORDKAKDKYVRSWKLF 180
Db 121 QOLQELTKTHSDIEKLSQYRALARDSAQAKRYQEAASKDKORDKAKDKYVRSWKLF 180
Qy 181 AHNRYVYLGVRAAQLHHQHQLLPGLRLSLQDLHEEMACILKEILQOYLEISLQVDE 240
Db 181 AHNRYVYLGVRAAQLHHQHQLLPGLRLSLQDLHEEMACILKEILQOYLEISLQVDE 240
Qy 241 VVAITHREMAAAARIQPEAEYQGFRLQYGSAPDVPVPCVTFDESLEEGEPLEPGELOLNE 300
Db 241 VVAITHREMAAAARIQPEAEYQGFRLQYGSAPDVPVPCVTFDESLEEGEPLEPGELOLNE 300
Qy 301 LTVESVQHTLTSVTDELAVATEMVFRQEMVTOLQOELRNEEENTHPRERVQLLKGKQVL 360
Db 301 LTVESVQHTLTSVTDELAVATEMVFRQEMVTOLQOELRNEEENTHPRERVQLLKGKQVL 360
Qy 361 QEALQGLQVALCSQAKLQAOQELLQTKLEHLGPGEPVPLVLLQDDRHSSTSSSEOREGGR 420
Db 361 QEALQGLQVALCSQAKLQAOQELLQTKLEHLGPGEPVPLVLLQDDRHSSTSSSEOREGGR 420
Qy 421 TPTLEILKSHISGIFRPKFS----- 440
Db 421 TPTLEILKSHISGIFRPKFS----- 440
Qy 441 -----NLYRLEGEGPSPISPLLDHLLSTOQPLTKK 470
Db 481 LVRESQKQEVYLSVLDGLPRHFIIQSLDNLVRLGEGPSPISPLLDHLLSTOQPLTKK 540
Qy 471 SGVVLHRAVPKDKVNLHEDVLGEOIGRGNFGEVFSGRADNTLVAVKSCRETLPPDL 530
Db 541 SGVVLHRAVPKDKVNLHEDVLGEOIGRGNFGEVFSGRADNTLVAVKSCRETLPPDL 600
Qy 531 KAKFLQEARILKQYSHNPVRLIGVCTQKQPIYVLMELVQGGDFLTLRTGEGARLVKTL 590
Db 601 KAKFLQEARILKQYSHNPVRLIGVCTQKQPIYVLMELVQGGDFLTLRTGEGARLVKTL 660
Qy 591 LQWVGDAAGMEYLESKCCIIHRDLAARNCLVTERKNVLIKISDFGMSREADGVYAASGGLR 650
Db 661 LQWVGDAAGMEYLESKCCIIHRDLAARNCLVTERKNVLIKISDFGMSREADGVYAASGGLR 720
Qy 651 QVPVKWTAPEALNYGRYSSESDDVMSFGILLWETESLGASPYPNLSNOOTREFVEKGGRLP 710
Db 721 QVPVKWTAPEALNYGRYSSESDDVMSFGILLWETESLGASPYPNLSNOOTREFVEKGGRLP 780

RESULT 4

US-10-660-763-4
; Sequence 4, Application US/10660763
; Publication No. US20040063130A1
; GENERAL INFORMATION:
; APPLICANT: GAN, Weiniu et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001183DIVII
; CURRENT APPLICATION NUMBER: US/10/660,763
; CURRENT FILING DATE: 2003-09-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 822
; TYPE: PRT
; ORGANISM: Homo sapiens

US-10-660-763-4

Query Match 98.8%; Score 3834; DB 15; Length 822;
Best Local Similarity 91.5%; Pred. No. 1.9e-220;
Matches 752; Conservative 0; Mismatches 0; Indels 70; Gaps 1;
Qy 1 MGFSSSELCSPOGHVGLQMQEAEIRLLLEGMRKMAQVRKSDREYAGLLHHMSLQDSGGQS 60
Db 1 MGFSSSELCSPOGHVGLQMQEAEIRLLLEGMRKMAQVRKSDREYAGLLHHMSLQDSGGQS 60
Qy 61 RAISPDPSPISQSWAEITSTQTEGLSRLLRQHAEDLNSGPKSLKSLILIRERQQLRKYTSEQW 120
Db 61 RAISPDPSPISQSWAEITSTQTEGLSRLLRQHAEDLNSGPKSLKSLILIRERQQLRKYTSEQW 120
Qy 121 QOLQELTKTHSDIEKLSQYRALARDSAQAKRYQEAASKDKORDKAKDKYVRSWKLF 180
Db 121 QOLQELTKTHSDIEKLSQYRALARDSAQAKRYQEAASKDKORDKAKDKYVRSWKLF 180
Qy 181 AHNRYVYLGVRAAQLHHQHQLLPGLRLSLQDLHEEMACILKEILQOYLEISLQVDE 240
Db 181 AHNRYVYLGVRAAQLHHQHQLLPGLRLSLQDLHEEMACILKEILQOYLEISLQVDE 240
Qy 241 VVAITHREMAAAARIQPEAEYQGFRLQYGSAPDVPVPCVTFDESLEEGEPLEPGELOLNE 300
Db 241 VVAITHREMAAAARIQPEAEYQGFRLQYGSAPDVPVPCVTFDESLEEGEPLEPGELOLNE 300
Qy 301 LTVESVQHTLTSVTDELAVATEMVFRQEMVTOLQOELRNEEENTHPRERVQLLKGKQVL 360
Db 301 LTVESVQHTLTSVTDELAVATEMVFRQEMVTOLQOELRNEEENTHPRERVQLLKGKQVL 360
Qy 361 QEALQGLQVALCSQAKLQAOQELLQTKLEHLGPGEPVPLVLLQDDRHSSTSSSEOREGGR 420
Db 361 QEALQGLQVALCSQAKLQAOQELLQTKLEHLGPGEPVPLVLLQDDRHSSTSSSEOREGGR 420
Qy 421 TPTLEILKSHISGIFRPKFS----- 440
Db 421 TPTLEILKSHISGIFRPKFS----- 440
Qy 441 -----NLYRLEGEGPSPISPLLDHLLSTOQPLTKK 470
Db 481 LVRESQKQEVYLSVLDGLPRHFIIQSLDNLVRLGEGPSPISPLLDHLLSTOQPLTKK 540
Qy 471 SGVVLHRAVPKDKVNLHEDVLGEOIGRGNFGEVFSGRADNTLVAVKSCRETLPPDL 530
Db 541 SGVVLHRAVPKDKVNLHEDVLGEOIGRGNFGEVFSGRADNTLVAVKSCRETLPPDL 600
Qy 531 KAKFLQEARILKQYSHNPVRLIGVCTQKQPIYVLMELVQGGDFLTLRTGEGARLVKTL 590
Db 601 KAKFLQEARILKQYSHNPVRLIGVCTQKQPIYVLMELVQGGDFLTLRTGEGARLVKTL 660
Qy 591 LQWVGDAAGMEYLESKCCIIHRDLAARNCLVTERKNVLIKISDFGMSREADGVYAASGGLR 650
Db 661 LQWVGDAAGMEYLESKCCIIHRDLAARNCLVTERKNVLIKISDFGMSREADGVYAASGGLR 720
Qy 651 QVPVKWTAPEALNYGRYSSESDDVMSFGILLWETESLGASPYPNLSNOOTREFVEKGGRLP 710
Db 721 QVPVKWTAPEALNYGRYSSESDDVMSFGILLWETESLGASPYPNLSNOOTREFVEKGGRLP 780
Qy 711 CPCLCPDAVFRMLMEQCWAYEPGQRPSPSTIIYQELQSIKRRHR 752
Db 781 CPCLCPDAVFRMLMEQCWAYEPGQRPSPSTIIYQELQSIKRRHR 822

RESULT 5

US-10-922-923-13687
; Sequence 13687, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10

```

; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 13687
; LENGTH: 820
; TYPE: PRT
; ORGANISM: Felis catus
US-10-732-923-13687

```

Query Match	93.3%	Score 3620;	DB 17;	Length 820;
Best Local Similarity	85.8%;	Pred. No. 1.1e-207;		
Matches 705;	Conservative 21;	Mismatches 24;	Indels 72;	Gaps 2;
QY	1	MGFSSELCSFGQHGVLQOMQAEALRLLEGMRKWAQVKSQVREYAGLLHMSLQDSGQS	60	
DB	1	MGFSSELCSFGQHGAVQOMQAEALRLLEGMRKWAQVKSQVREYAGLLHMSLQDGG--	58	
QY	61	RAISPSPIQSQSWAEITTSQTEGSLRLRQHAEDLNSGPLSKLSLLIRERQOOLRKYSEQW	120	
DB	59	RGTPGYSPISQSWAEITTSQTEGSLRLRQHAEDLNSGPLSKGLILIRERQOOLRKYSEQW	118	
QY	121	QOLQOELTKTHSDIDIEKLKSOYRALARDSAQAEKYOEASKDKDRDKAKOKYVRSWLKLF	180	
DB	119	QOLQOELTKTHNQDIEKLKSOYRALARDSQAARRKYQEASKDKDRDKAKOKYVRSWLKLF	178	
QY	181	AHNRYVYLVRAAQLHRQHHLQLLPGLLASLQDLHEEMACILKEILQEVLEISLQVDE	240	
DB	179	AHNRYVYLVRAAQLHRHHHQLMLPGLLSQDLQHEMACILKEILQEVLEISLQVDE	238	
QY	241	VVAIHREMAAAARIQPEAEYQGFRLROYGAPDPVPPCVTFDESLLERGEPELGELOINE	300	
DB	239	VVAIHLEMAAAVARIQPEAEYQGFRLQYGSTPDVPPCVTFDESLLERGEPELGELOINE	298	
QY	301	LTVESVQHTLTSVTDLAVATEMVFRRQEMVTLQOQLERNEEENTHPRERVQLIGKQVL	360	
DB	299	LTVESVQHTLTSVTDLTVAQTQVLSQEAVALQORELQNEEONTHPRERVQLAKQVL	358	
QY	361	QEALQGLQVALCSQAKLQAOQELLQTKLEHLGPGCEPPPVLLQDDRHSTSSSEQEREGGR	420	
DB	359	QEALQALQALCSQAKLQAOQRELLQAKLEQLGPGCEPPPVLLQDDRHSTSSSEQEREGGR	418	
QY	421	TPTEILILKSHISGIFRPKFS-----	440	
DB	419	TPTEILILKSHISGIFRPKFSLLPPPLQLVPEVQKPLHEQLVHGALPRAEVAELLTHSGDF	478	
QY	441	-----NLYRLEGEGFPSPILLIDHLLSTOQPLTKK	470	
DB	479	LVRESQKQEVYLSVLWDGQPRHFIIQSDADNLYRLEGDFASIPLLVDHLLRSQOPLTKK	538	
QY	471	SGVVLHRAVPKDKWVLNHEDLVLGEQIQRGNFGVFSGRLRADNTLVAVKSRETLPDDL	530	
DB	539	SGVVLNRAVPKDKWVLNHEDLVLGEQIQRGNFGVFSGRLRADNTLVAVKSRETLPDDI	598	
QY	531	KAKFLQEARILKOYSHPNIVRLIGVCTQKQPIYIVMELVQGDGFLTLFRTGEARLKVTL	590	
DB	599	KAKFLQEARILKOYSHPNIVRLIGVCTQKQPIYIVMELVQGDGFLTLFRTGEARLRMKT	658	
QY	591	LQWVGDAAGWEYLESKCCIIHRDLAARNCLVTEKNVLKISDFGMSREADGVYAASGLLR	650	
DB	659	LQWVGDAAGWEYLESKCCIIHRDLAARNCLVTEKNVLKISDFGMSREADGVYAASGLLR	718	
QY	651	QVPVKWTAPALNRYGRYSSSDVWSFGILLWETFSLGASPPYPLNSNOTREFVFKGRLP	710	
DB	719	QVPVKWTAPALNRYGRYSSSDVWSFGILLWETFSLGASPPYPLNSNOTREFVFKGRLP	778	
QY	711	CPELCPDPAFLRMBQWAYBFGQRPSTTIYQELQSIKGRH	752	
DB	779	CPELCPDPAFLRMBQWAYBFGQRPSTSIYQELQSIKGRH	820	

RESULT 6
US-10-732-923-13688
; Sequence 13688, Application US/10732923

```

; Publication No. US20050108791A1
;
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 13688
; LENGTH: 820
; TYPE: PRT
; ORGANISM: Felis catus
US-10-732-923-13688

```

Query Match	93.3%;	Score 3620;	DB 17;	Length 820;
Best Local Similarity	85.8%;	Pred. No. 1.1e-207;		
Matches	705;	Conservative 21;	Mismatches 24;	Indels 72; Gaps 2;
QY	1	MGFSSELCSPOGHVGLQQMQEAEALRLLEGWRKMAQRVKSDDRYAGLLHHMSLQDSGGQS	60	
DB	1	MGFSSELCSPOGHGAVQQMQEAEALRLLEGWRKMAQRVKSDDRYAGLLHHMSLQDGGG--	58	
QY	61	RAISPDSPISQSWAETISQTEGLSRLLRQHAEDLNSGPIKSLULLIRERQOLRKYTSEQW	120	
DB	59	RGTGPPSPISQSWAETISQTEGLSRLLRQHAEDLNSGPIKSLGILLIRERQOLRKYTSEQW	118	
QY	121	QQLQOELTKTHSODIEKLKSQYRALARDSAAQARKYQEAASKDKDRDKAKDKYVRSIWKLF	180	
DB	119	QQLQOELTKTHNODIEKLKSQYRALARDSAAQARKYQEAASKDKDRDKAKDKYVRSIWKLF	178	
QY	181	AHNNRYVLGVRAAQLHHQHHQULLPGLLRSLODLHEEMACILKEILQEYLEISSLVQDE	240	
DB	179	AHNNRYVLGVRAAQLHHHHHHQMLPGLLSLODLHQEMACILKEILQEYLEISSLVQDE	238	
QY	241	VVAIHREMAAAARIQPEAEYQGFRLQYGSAPDVPVPCVTFDESILLESGEPLFGELOQNE	300	
DB	239	VVAIHLEMAAAVARIQPEAEYQGFRLQYGSTPDVPVPCVTFDESILLESGEPLFGELOQNE	298	
QY	301	LTVESVQHTLTSVTDLAVATEVMFRQRMVMTQLQOELRNEEENTHPRERVQLLKGKQVL	360	
DB	299	LTVESVQHTLTSVTDLTVATQVLSRQEAVALQRELQNEEQNTHPRERVQLLAKKQVL	358	
QY	361	QEAQLGLQALCSQAKLQAQOELLQTKLEHLHGCEPPPVLLLODDRHSSTSSSEQEREGGR	420	
DB	359	QEAQLQALQALCSQAKLQAQARELLQAKLEQLGCEPPPVLLLODDRHSSTSSSEQEREGGR	418	
QY	421	TPTEILTKSHISGIFRPKFS-----	440	
DB	419	TPTEILTKSHISGIFRPKFSLPPPLQLVPEVQKPLHEQLWYHGALPRAEVAELLTHSGDF	478	
QY	441	-----NLYRLEGEGFPSPILLIDHLLSTQOPLTKK	470	
DB	479	LVRESQKQEVVLSVLWDGQPRFIIESADNLYRLEGDFGFPASPLLVLDHLLRSQOPLTKK	538	
QY	471	SGVVLHRAVPKDKWLVNHEDVLVGEQIGRGNFGEVFSGRLRADNTLVAVKSCRETLPPDL	530	
DB	539	SGVVLNRAVPKDKWLVNHEDVLVGEQIGRGNFGEVFSGRLRADNTLVAVKSCRETLPPDI	598	
QY	531	KAKFLQEARLTKOYSHPNIVRLIGCVCTOKQPIYIVMELVOGGDFLTLRTYEGARLVKTL	590	
DB	599	KAKFLQEARLTKOYSHPNIVRLIGCVCTOKQPIYIVMELVOGGDFLTLRTYEGARLVKTL	658	
QY	591	LQMVGDAAAQMEYLESKCCIHRLDAARNCLVTEKNVLKISDFGMSREADGVYAASGLR	650	
DB	659	LQMVGDAAAQMEYLESKCCIHRLDAARNCLVTEKNVLKISDFGMSREADGVYAASGLR	718	
QY	651	QVPVKWTAPALNAGRYSSSDVWSGILLWETFSLGASYPNLSNOOTREFVEVKGRLP	710	
DB	719	QVPVKWTAPALNAGRYSSSDVWSGILLWETFSLGASYPNLSNOOTREFVEVKGRLP	778	
QY	711	CPBLCPDAVPRLMEQCWAYBPQPGPSFTIYQELQSIRKRR	752	

Db 779 CPCLCPDAVFLMBQCVAYEFGQRPSPSAIYQELQSIKRRHR 820

RESULT 7

US-10-732-923-13665

; Sequence 13665, Application US/10732923

; Publication No. US20050108791A1

; GENERAL INFORMATION:

; APPLICANT: Edgerton, Michael D

; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES

; FILE REFERENCE: 38-15(52796)C

; CURRENT APPLICATION NUMBER: US/10/732,923

; CURRENT FILING DATE: 2003-12-10

; PRIOR APPLICATION NUMBER: 10/310,154

; PRIOR FILING DATE: 2002-12-04

; NUMBER OF SEQ ID NOS: 24149

; SEQ ID NO 13665

; LENGTH: 824

; TYPE: PRT

; ORGANISM: Gallus gallus

US-10-732-923-13665

Query Match 67.9%; Score 2635; DB 17; Length 824;

Best Local Similarity 62.7%; Pred. No. 6.9e-149;

Matches 518; Conservative 99; Mismatches 133; Indels 76; Gaps 3;

QY 1 MGFSSCLSPQGHGVLOQMGEAEURLLEGRKMAQRVKSDREYAGLLHHM----SLQDS 56

DB 1 MGFGEPLWCPKGHSELURLQDSEURLLELMKKMWSQRAKSDREYAGMLHHMFSLQEKQEG 60

QY 57 GGOSRAISPDPSPISQSWAEITTSQTEGLSRLLRQHAEDLNSGPLSKLLIRERQQLRKY 116

DB 61 LGHLRATDHSQIGESWVWLASQETETLSQTLRRHAELAAGPLAKLSLRDKQQLRAKF 120

QY 117 SEQWQLOQBELTKTHSQDI EKLSQYRALARDSQAQRKYQAEASDKDKRQAKDKYVRSL 176

DB 121 SEQWQQLSQBYARTTQOEMEKLAQYRSVRDSTQAKRYQAEASDKEREKAKYVRSL 180

QY 177 WKLFPAHNRYVLGVRAAQLHHQHLLPGLLSLQDLHEEMACILKEITLQYLETSSL 236

DB 181 WKLYALNQVYLA VRAAALHHHHYQALPTLHESLSYLOQEMVLVKEILGEYCSISL 240

QY 237 VQDEVVAIHREMAAAAARI OPEAEYQOGLRQYGSAPDVPPCVTFDESLLBEGEPLEPGE 296

DB 241 VQEDVLAHQEVAHAVEMIDPATEYSFVQCHRYDSEVPVAVTFDESLLBETESLEPGE 300

QY 297 QLNELTVESVQHTLTSVTDELAVATEVMVFRQEMVTLOQELRNEENTHPRVRVQLGK 356

DB 301 QLNELTTESVQHSLTSTEEELLASREAVSSKEQRWELQVELRGEELASPGERVHLGK 360

QY 357 ROVLQEAALQGLVALCSQAKLQAOQELLOTKLEHLGPGEPVPLLLODDRHSTSSQER 416

DB 361 RQGLQEAQQQLQGLVCAQAKLQAOQDMLANKLAELSGSEPPALPQEDRQSVCSSTDOER 420

QY 417 EGGRTPTLEILKSHISGIFRPKFS----- 440

DB 421 SG--VTALETIKHISGIFSPRFSLPVPVLIPEVQKPLCQAWYHGAI PRSEVQELLKC 478

QY 441 -----NLYRLEGEGPSPILPIDHLLSTQOP 466

DB 479 SGDFLVRESQKQBYVLSVLWDGQPRHFIIQAADNLYRLEGEGPFTPLIDHLLQSQOP 538

QY 467 LTKKSGVVLHRAVPKDKWVLNHHEDVLGEQIGRGNFGEVFSGRLRADNTLVAVKSCRETL 526

DB 539 ITRKSGVLTRAVLKDQWVLNHHEDVLGERIGRGNFGEVFSGRLRADNTTPVAVKSCRETL 598

QY 527 PPDLLKAKFLQEARILKQYSHNPIVRLIGVCTQKQPIYIVMELVQGGDFLFLRTEGARLR 586

DB 599 PPELKAFLQEARILKQYNHNPVIRLLGVCTQKQPIYIVMELVQGGDFLFLSRSEGHPLK 658

QY 587 VKTLLQVMGDAAGMEYLESKCCITHRDLAARNCLVTEKNVLKISDFGMSREEDAGVYAA 646

QY 527 PDLKAKFLQEARILKOYSHPNIVRLIGVCTQKQPIYIVMELVQGGDFLFTURTEGARLR 586
Db 673 PPELKAFLQEARILKQCNHNPVRLIGVCTQKQPIYIVMELVQGGDFLFTURTEGARLR 732
QY 587 VKTLLQWGDAAAGMEYLSKCCIHRLDLAARCLVTEKNVLSKIDFGMSREAGGVAAAS 646
Db 733 MKKLIKMDNAAAGMEYLSKCCIHRLDLAARCLVTEKNVLSKIDFGMSREAGGVAAAS 792
QY 647 GGLRQVPVKWTAPEALNYGRYSSESVDWMSFGILLWETFSLGASPPYNLSNQOTREFVEKG 706
Db 793 GGMKOIPVKWTAPEALNYGWYSSESVDWMSFGILLWETFSLGASPPYNLSNQOTREFVEKG 852
QY 707 GRLLPCPELCPDAVFLRMEQWAVEPQGRPSFSTIYQELQSIRKRR 752
Db 853 VRLEPPQCPEDVYRLMQRWCWEYDHRPSPFGAVHQDLIAIRKRR 898
RESULT 9
US-10-732-923-13482
; Sequence 13482, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 13482
; TYPE: PRT
; ORGANISM: Fujinami sarcoma virus
US-10-732-923-13482
Query Match 66.3%; Score 2570; DB 17; Length 873;
Best Local Similarity 61.4%; Pred. No. 5.6e-145;
Matches 507; Conservative 106; Mismatches 137; Indels 76; Gaps 3;
QY 1 MGFSSSLCSPQGHVGLQMQEAEELLEGMRKMAQVRKSDREYAGLLHHM----SLQDS 56
Db 50 MGFPELWCPKGHSELRLQDSSELRLLELMKMWQRAKSDREYAGLLHHMFSLQEKQ 109
QY 57 GQSRAPSPDPSISQSWAEITSTQTEGLSLRQHAEDLNSGLSKLSLLIRERQQLRKY 116
Db 110 LGHLRATDHSQIGESWVVLASQTTLSQTLRRHAEELAAAGPLAKLSILIRDKQLRKVF 169
QY 117 SEWQOQLOQLTKTHSQDIKLSQYRALARDSAQAKRYQEAASKDKDKAKDKYVRS 176
Db 170 SEWQOQLOQYAWTTQOEVEKLKAQYRSIVRDSQAKRYQEAASKDKERAKERYVRS 229
QY 177 WKLFAHNNRYVLGVRAAQHQQHQLLPLGLLSRLQDLHEMACILKEILQYELIS 236
Db 230 SKLYALHNQYVLAVQAAALHHHHYQALPTLHESLYSQEEMVVLVKEILGECYSITSL 289
QY 237 VQDEVVAIHREMAAARAOPEAEYQGFRLQYGSAPDVPVCTFDESLEEGEPLEPGEL 296
Db 290 VQEDVLAHQVAHVAEMIDPATEYSSVQCHRYDSEVPVPAVTFDESLEEAESLEPGEL 349
QY 297 QLNELTVESVQHTLTSVTDELAVATEMVFRRQEMVTQLOQELRNEENTHPRERVOLLGK 356
Db 350 QLNELTVESVQHTLTSVTDELAVATEMVFRRQEMVTQLOQELRNEENTHPRERVOLLGK 409
QY 417 EGGRTPTLEIKSHIGIFRPKFS----- 440
Db 470 SG--VTALKTIKNIHSIFRSLPPVPLIPEVQKPLCQQAQVHGAIPRSEVQELLYK 527

QY 441 -----NLYRLEGEGFPSPILIDHLLSTQOP 456
Db 528 SGDFLVRESQKQBYVLVLDWGQPRHFIIQAADNLYRLEDDGLPTIPLIDHLLSQORP 587
QY 467 LTKKSGVVLHRAVPKDWLNHEDVLGEOIGRGNFGEVSGRLRADNTLVAVKSCRETL 526
Db 588 ITRKSGVLTRAVLKDWLNHEDVLGEOIGRGNFGEVSGRLRADNTLVAVKSCRETL 647
QY 527 PDLKAKFLQEARILKOYSHPNIVRLIGVCTQKQPIYIVMELVQGGDFLFTURTEGARLR 586
Db 648 PPELKAFLQEARILKQCNHNPVRLIGVCTQKQPIYIVMELVQGGDFLFTURTEGARLR 707
QY 587 VKTLLQWGDAAAGMEYLSKCCIHRLDLAARCLVTEKNVLSKIDFGMSREAGGVAAAS 646
Db 708 MKKLIKMDNAAAGMEYLSKCCIHRLDLAARCLVTEKNVLSKIDFGMSREAGGVAAAS 767
QY 647 GGLRQVPVKWTAPEALNYGRYSSESVDWMSFGILLWETFSLGASPPYNLSNQOTREFVEKG 706
Db 768 GGMKOIPVKWTAPEALNYGWYSSESVDWMSFGILLWETFSLGASPPYNLSNQOTREFVEKG 827
QY 707 GRLLPCPELCPDAVFLRMEQWAVEPQGRPSFSTIYQELQSIRKRR 752
Db 828 VRLEPPQCPEDVYRLMQRWCWEYDHRPSPFGAVHQDLIAIRKRR 873
RESULT 10
US-10-732-923-13480
; Sequence 13480, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 13480
; TYPE: PRT
; ORGANISM: Fujinami sarcoma virus
US-10-732-923-13480
Query Match 66.0%; Score 2561; DB 17; Length 873;
Best Local Similarity 61.3%; Pred. No. 1.9e-144;
Matches 506; Conservative 106; Mismatches 138; Indels 76; Gaps 3;
QY 1 MGFSSSLCSPQGHVGLQMQEAEELLEGMRKMAQVRKSDREYAGLLHHM----SLQDS 56
Db 50 MGFPELWCPKGHSELRLQDSSELRLLELMKMWQRAKSDREYAGLLHHMFSLQEKQ 109
QY 57 GQSRAPSPDPSISQSWAEITSTQTEGLSLRQHAEDLNSGLSKLSLLIRERQQLRKY 116
Db 110 LGHLRATDHSQIGESWVVLASQTTLSQTLRRHAEELAAAGPLAKLSILIRDKQLRKVF 169
QY 117 SEWQOQLOQLTKTHSQDIKLSQYRALARDSAQAKRYQEAASKDKDKAKDKYVRS 176
Db 170 SEWQOQLOQYAWTTQOEVEKLKAQYRSIVRDSQAKRYQEAASKDKERAKERYVRS 229
QY 177 WKLFAHNNRYVLGVRAAQHQQHQLLPLGLLSRLQDLHEMACILKEILQYELIS 236
Db 230 SKLYALHNQYVLAVQAAALHHHHYQALPTLHESLYSQEEMVVLVKEILGECYSITSL 289
QY 237 VQDEVVAIHREMAAARAOPEAEYQGFRLQYGSAPDVPVCTFDESLEEGEPLEPGEL 296
Db 290 VQEDVLAHQVAHVAEMIDPATEYSSVQCHRYDSEVPVPAVTFDESLEEAENLEPGEL 349
QY 297 QLNELTVESVQHTLTSVTDELAVATEMVFRRQEMVTQLOQELRNEENTHPRERVOLLGK 356
Db 350 QLNELTVESVQHTLTSVTDELAVATEMVFRRQEMVTQLOQELRNEENTHPRERVOLLGK 409
QY 357 RQVLQALQGLQVALCSQAKIQAQOELLQTKLEHLPGEPPVPLVLLQDDRHSSTSSQER 416

```
Db 410 RQUREAQOQLGVLVCAQAKLQADRLANKLAELGSEPPALPQEDRQSARSTDOER 469
Qy 417 EGGRTPTLEIKSHISGIFRPKFS-----NLYRLEGEPPSPLIDHLLSTQOP 466
Db 470 SG--VTALKTIKHNISGIFSPRFSPLPPVPLIPEVQKPLCQAWYHGAIPRSEVOELLKY 527
Qy 441 -----NLYRLEGEPPSPLIDHLLSTQOP 466
Db 528 SGDFLVRESQKQBYLVSLVMDGQPRHFIQAADNLYRLDDGLPTIPLIDHLLSQORP 587
Qy 467 LTKKSGVVLHRAVPKDKWLNHEDVLGEOIGRGNFGEVPSGRLRADNTLVAVKSCRETL 526
Db 588 ITRKSGVILTRAVLKDKNHEDVLLGERIGRGNFGEVPSGRLRADNTLVAVKSCRETL 647
Qy 527 PDLKAKFLOEARILKQYSHPNIVRLIGVCTQKQPIYIWMELVQGGDFLFLRTEGARLR 586
Db 648 PDLKAKFLOEARILKQYSHPNIVRLIGVCTQKQPIYIWMELVQGGDFLFLRTEGARLR 707
Qy 587 VTKLLQVMDAAAGMEYLESKCCIHRDLAARNCLVTEKNVTKISDFGMSREEDGVYVAA 646
Db 708 MKKLIKMMENAAAGMEYLESKCHCIHRDLAARNCLVTEKNVTKISDFGMSREEDGVYV 767
Qy 647 GGLRQVPVKWTAPEALNYGRYSSESVDWVSFGILLWETFSLGASPYNLSNQOTREFVEKG 706
Db 768 GGMKQIPVKWTAPEALNYGRYSSESVDWVSFGILLWETFSLGASPYNLSNQOTREFVE 827
Qy 707 GRLLPCPELCPDAVFLMEQWAVEPQRPSTFYIQLQSIKRRHR 752
Db 828 VRLEPPQCPEDVYRLMQRCEYDPHRRPFGAVHQDLIAIRKRRH 873

RESULT 11
US-10-732-923-13479
; Sequence 13479, Application US/10732923
; Publication No. US2005010879A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 13479
; LENGTH: 1182
; TYPE: PRT
; ORGANISM: Fujinami sarcoma virus
US-10-732-923-13479

Query Match 66.0%; Score 2561; DB 17; Length 1182;
Best Local Similarity 61.3%; Pred. No. 2,7e-144;
Matches 506; Conservative 106; Mismatches 138; Indels 76; Gaps 3;

Qy 1 MGFSSSELCSPOGHVGLVQMQEAEIRLLEGKMKMAORVKSDDREYAGLLHMSLQDSGQS 56
Db 359 MGFPELWCPKGHTLRLQDSLELRLLEKMKMSQRAKSDREYAGLLHMSLQDSGQS 418
Qy 57 GGQSRALSPSPISQSWAETTSQTEGLRLLRQHAEDLNSGPLSKLLIRERQOLKTY 116
Db 419 LGHLRATDHSQIGESWVWLASQTEGLRLLRQHAEDLNSGPLSKLLIRERQOLKTY 478
Qy 117 SEWQOQLQELTKTHSDIEKLKSOYRALARDSQAQAKRYQEAASKDKDRKADKYVRS 176
Db 479 SEWQOQLQELTKTHSDIEKLKSOYRALARDSQAQAKRYQEAASKDKDRKADKYVRS 538
Qy 177 WKLFARHNRYVYVRAQALHQQHLLQLLGLLRLSLQDLHEEMACILKEILQELYS 236
Db 539 SKLYALHNQYVLAQAAALHHHHYQALPTLHESLYSLQEQWVYLKEILGEYCSITSL 598
Qy 237 VQDEVAIHREMAAAARIQEAQYQFLQYQAGDVPVPCVTPDESILLEGEPLEPGE 296
Db 940 VQDEVAIHREMAAAARIQEAQYQFLQYQAGDVPVPCVTPDESILLEGEPLEPGE 296
```

```
Db 599 VQEDVLAIHOKVAHVMEMIDPATEYSSFVQCHRYDSEVPVPTFDESLLBEAENLPE 658
Qy 297 QLNELTVESVQHTLTSVTDLAVATEMVFRRQEMVTQLQOELRNEEBENTHPRERVQLGK 356
Db 659 QLNELTIESVQHSUTSIEBELLASRAVSSKEQRMVQWELQVELRGEELALSPGERVHLGK 718
Qy 357 RQVLQALQGLQVALCSQAKLQAOQELLQTKLHGLGPEPPVLLQDDRHSTSSSQER 416
Db 719 RQGLREAQOQLGVLVCAQAKLQADRLANKLAELGSEPPALPQEDRQSARSTDOER 778
Qy 417 EGGRTPTLEIKSHISGIFRPKFS-----NLYRLEGEPPSPLIDHLLSTQOP 466
Db 779 SG--VTALKTIKHNISGIFSPRFSPLPPVPLIPEVQKPLCQAWYHGAIPRSEVOELLKY 836
Qy 441 -----NLYRLEGEPPSPLIDHLLSTQOP 466
Db 837 SGDFLVRESQKQBYLVSLVMDGQPRHFIQAADNLYRLDDGLPTIPLIDHLLSQORP 896
Qy 467 LTKKSGVVLHRAVPKDKWLNHEDVLGEOIGRGNFGEVPSGRLRADNTLVAVKSCRETL 526
Db 897 ITRKSGVILTRAVLKDKNHEDVLLGERIGRGNFGEVPSGRLRADNTLVAVKSCRETL 956
Qy 527 PDLKAKFLOEARILKQYSHPNIVRLIGVCTQKQPIYIWMELVQGGDFLFLRTEGARLR 586
Db 957 PDLKAKFLOEARILKQYSHPNIVRLIGVCTQKQPIYIWMELVQGGDFLFLRTEGARLR 1016
Qy 587 VTKLLQVMDAAAGMEYLESKCCIHRDLAARNCLVTEKNVTKISDFGMSREEDGVYVAA 646
Db 1017 MKKLIKMMENAAAGMEYLESKCHCIHRDLAARNCLVTEKNVTKISDFGMSREEDGVYV 1076
Qy 647 GGLRQVPVKWTAPEALNYGRYSSESVDWVSFGILLWETFSLGASPYNLSNQOTREFVEKG 706
Db 1077 GGMKQIPVKWTAPEALNYGRYSSESVDWVSFGILLWETFSLGASPYNLSNQOTREFVE 1136
Qy 707 GRLLPCPELCPDAVFLMEQWAVEPQRPSTFYIQLQSIKRRHR 752
Db 1137 VRLEPPQCPEDVYRLMQRCEYDPHRRPFGAVHQDLIAIRKRRH 1182

RESULT 12
US-10-732-923-13452
; Sequence 13452, Application US/10732923
; Publication No. US2005010879A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 13452
; LENGTH: 609
; TYPE: PRT
; ORGANISM: Gardner-Arnstein feline sarcoma virus
US-10-732-923-13452

Query Match 63.9%; Score 2479; DB 17; Length 609;
Best Local Similarity 61.7%; Pred. No. 1e-139;
Matches 507; Conservative 11; Mismatches 14; Indels 290; Gaps 3;

Qy 1 MGFSSSELCSPOGHVGLVQMQEAEIRLLEGKMKMAORVKSDDREYAGLLHMSLQDSGQS 60
Db 8 MGFSSSELCSPOGHVGLVQMQEAEIRLLEGKMKMAORVKSDDREYAGLLHMSLQDSGQS 65
Qy 61 RAISPSPISQSWAETTSQTEGLRLLRQHAEDLNSGPLSKLLIRERQOLKTYSEOW 120
Db 66 RGTGYPSPISQSWAETTSQTEGLRLLRQHAEDLNSGPLSKLLIRERQOLKTYSEOW 125
Qy 121 QLOQELTKTHSDIEKLKSOYRALARDSQAQAKRYQEAASKDKDRKADKYVRSWLK 180
Db 126 QLOQELTKTHSDIEKLKSOYRALARDSQAQAKRYQEAASKDKDRKADKYVRSWLK 173
```

QY	181	AHNRVVLGVRAAQLHHQHLLPGLLSRLQHAEDLNSGPLSKLLIRERQQLRTYSEQW	240
Db	174	-----	173
QY	241	VVAIHREMAAAARIQPEAEYQGFRLQYGSAPDVPVCTVDFBSLLEGEPELGEQQLNE	300
Db	174	-----	173
QY	301	LTVESVQHTLTSVTDELAVATEMVFRRQEMVTQLOQLRNEEBENTHPRERVQLLKGKQVL	360
Db	174	-----	173
QY	361	QALQGLQVALCSQAKLQAQOELLQTKLEHLGPGPEPPVLLQDDRHSTSSSEQREGR	420
Db	174	-----	173
QY	421	TPTLEILKSHISGIFRPKFS-----	440
Db	208	TPTLEILKSHISGIFRPKFS-----	267
QY	441	-----	440
Db	268	LVRESQKQEVYLSVLDGQPRHFIQSADNLVYRPEGDFASIPLLVDHLLRSQQPLTKK	327
QY	471	SGVILHRAVPKDKWLNHEDVLGEOIGRGNFGEVFSGRRLADNTLVAVKSCRETLPDDL	530
Db	328	SGVILHRAVPKDKWLNHEDVLGEOIGRGNFGEVFSGRRLADNTLVAVKSCRETLPDDL	387
QY	531	KAKFQEARILKQYSHPNIVRLIGVCTQKQPIYIVMELVQGGDPLFLRTEGARLRVKTLL	590
Db	388	KAKFQEARILKQYSHPNIVRLIGVCTQKQPIYIVMELVQGGDPLFLRTEGARLRVKTLL	447
QY	591	LQWVGDAAGMEYLSKCCIHRDLAARNCLVTEKNVLSIDFGMSREADGVYAASGGLR	650
Db	448	LQWVGDAAGMEYLSKCCIHRDLAARNCLVTEKNVLSIDFGMSREADGVYAASGGLR	507
QY	651	QVPVKWTAPEALNYGRYSSESVDWVSGILLMETFSLGASPYPNLSNQTREFEVKGGRLP	710
Db	508	QVPVKWTAPEALNYGRYSSESVDWVSGILLMETFSLGASPYPNLSNQTREFEVKGGRLP	567
QY	711	CPELCPDAVFLMEQWAVEPQRPFSFTIYQELQSIRKRRH	752
Db	568	CPELCPDAVFLMEQWAVEPQRPFSFTIYQELQSIRKRRH	609
RESULT 13			
US-10-732-923-13461			
; Sequence 13461, Application US/10732923			
; Publication No. US20050108791A1			
; GENERAL INFORMATION:			
; APPLICANT: Edgerton, Michael D			
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES			
; FILE REFERENCE: 38-15(52796)C			
; CURRENT APPLICATION NUMBER: US/10/732,923			
; CURRENT FILING DATE: 2003-12-10			
; PRIOR APPLICATION NUMBER: 10/310,154			
; PRIOR FILING DATE: 2002-12-04			
; NUMBER OF SEQ ID NOS: 24149			
; SEQ ID NO 13461			
; LENGTH: 957			
; TYPE: PRT			
; ORGANISM: Gardner-Arnstein feline leukemia oncovirus B			
US-10-732-923-13461			
Query Match			
Best Local Similarity 63.9%; Score 2479; DB 17; Length 957;			
Matches 507; Conservative 11; Mismatches 14; Indels 290; Gaps 3;			
QY	1	MGFSSELCSPOGHVLOQWAEALRLLEGMRKMAQRYKSDREYAGLLHMSLQDGGG	60
Db	356	MGFSSELCSPOGHVLOQWAEALRLLEGMRKMAQRYKSDREYAGLLHMSLQDGGG--	413
RESULT 14			
US-10-732-923-13454			
; Sequence 13454, Application US/10732923			
; Publication No. US20050108791A1			
; GENERAL INFORMATION:			
; APPLICANT: Edgerton, Michael D			
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES			
; FILE REFERENCE: 38-15(52796)C			
; CURRENT APPLICATION NUMBER: US/10/732,923			
; CURRENT FILING DATE: 2003-12-10			
; PRIOR APPLICATION NUMBER: 10/310,154			
; PRIOR FILING DATE: 2002-12-04			
; NUMBER OF SEQ ID NOS: 24149			
; SEQ ID NO 13454			
; LENGTH: 477			
; TYPE: PRT			
; ORGANISM: Feline sarcoma virus (strain Snyder-Theilen)			
US-10-732-923-13454			
Query Match			
51.0%; Score 1980; DB 17; Length 477;			

Search completed: August 4, 2005, 14:01:23
Job time : 164 secs

Query Match	50.1%	Score 1942.5;	DB 17;	Length 774;
Best Local Similarity	68.9%	Pred. No. 1.4e-107;		
Matches 410; Conservative 18; Mismatches 72; Indels 95; Gaps 77;				
Qy	246	REMAAAARIQPEAYQGFLRQYG--SAPDV-----PP-----CVTFDESLLERGE	289	
Db	187	RENPAEESQALPLREGPNRRQYWPFSASDLVNNKSHNPPSQDPVALTNLIESLVTHQ	246	
Qy	290	PLEGELQLNE--LTVESVQHGLTSVTDELAVATEMVFRRQEMVTLOQEELNRBEENTHP	347	
Db	247	PTWDDCQQLQALLTGEERQRVLE-----ARKQVPGEDGRPTQLNPVIDETFPPLTHP	299	
Qy	348	RERVOLLCKROVLQEGALOGLOVALCSQAQAEQLQTKEHLGGPGSEPPVLLQQDDRH	407	

Seq. ID	Seq. Length	Seq. Type	Seq. Source	Seq. Accession	Seq. Description	Seq. Date	Seq. Author	Seq. Title	Seq. Abstract	Seq. Keywords	Seq. References	Seq. Comments
1	100	Conservative	NCBI	1.4e-107	Matches 410; Mismatches 18; Indels 95; Gaps 7;							

Qy	246	REMAAAARI0PEABYQFGLRQYG--SAPDV-----PP-----CUTDESLLERGE	289
		:: :: ::	
Db	187	RENPAEESQALPLREGPNRNPQYWPFSASDLYNKNKSHNPPSPQDPVALTNLIESILVTHQ	246
		:: :: ::	
Qy	290	PLEPGELOQNR--LTVESVQHTLTSTVDLAVATAMVFRQEWMTQLQOQLRNEEENTHP	347
		:: :: ::	
Db	247	PTWDDCQQLQALLTGERQRVLLE-----ARKQVGEGRPTQLPNVIDETFPPLTHP	299
		:: :: ::	
Qy	348	RERVOLLKGRVQLQEQALQGLQVLCQSQAKQAQOELLQTKLEHLGPGGPPVLLQLDDRH	407
		:: :: ::	

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 9, 2005, 20:15:00 ; Search time 2010.27 Seconds
(without alignments)
7274.725 Million cell updates/sec

Title: US-10-660-763-1_COPY_72_2327

Perfect score: 2256

Sequence: 1 atgggtctctctctgagct.....gcacgcgaagcgccatcg 2256

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 7297361 seqs, 3241162794 residues

Total number of hits satisfying chosen parameters: 14594722

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
- 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
- 5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq.*
- 6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq.*
- 7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq.*
- 8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
- 9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
- 10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq.*
- 13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
- 14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
- 15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
- 16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
- 17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
- 18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq.*
- 19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq.*
- 20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq.*
- 21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq.*
- 22: /cgn2_6/ptodata/1/pubpna/US10J_NEW_PUB.seq.*
- 23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq.*
- 24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
- 26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2256	100.0	2674	13	US-10-003-295-1 Sequence 1, Appli
2	2256	100.0	2674	18	US-10-660-763-1 Sequence 1, Appli
3	2023.4	89.7	2889	16	US-10-240-965-256 Sequence 256, App
4	328.8	14.6	2950	21	US-10-887-553A-240 Sequence 240, App
5	328.8	14.5	449	10	US-09-918-995-1503 Sequence 1503, Ap
6	296.2	13.1	361	9	US-09-948-802-5 Sequence 5, Appli
7	296.2	13.1	361	15	US-10-121-925-5 Sequence 5, Appli

8	271.6	12.0	1779	18	US-10-280-576-19 Sequence 19, Appli
9	227.2	10.1	15297	13	US-10-003-295-3 Sequence 3, Appli
10	227.2	10.1	15297	18	US-10-660-763-3 Sequence 3, Appli
11	201.2	8.9	3875	15	US-10-101-510-525 Sequence 525, App
12	198	8.8	2955	19	US-10-384-339C-1 Sequence 1, Appli
13	198	8.8	3370	9	US-09-967-768A-144 Sequence 144, App
14	198	8.8	3370	16	US-10-354-358-101 Sequence 101, App
15	198	8.8	3370	16	US-10-210-120-19 Sequence 19, Appli
16	198	8.8	3370	19	US-10-776-827-82 Sequence 82, Appli
17	198	8.8	3370	20	US-10-473-974-219 Sequence 219, App
18	198	8.8	3370	21	US-10-843-641A-6289 Sequence 6289, Ap
19	198	8.8	3370	22	US-10-909-035-19 Sequence 2, Appli
20	185.4	8.2	3042	19	US-10-384-339C-2 Sequence 29, Appli
21	185.4	8.2	3921	10	US-09-921-406C-29 Sequence 222, App
22	185.4	8.2	3921	15	US-10-007-926A-222 Sequence 19, Appli
23	185.4	8.2	3921	16	US-10-269-909-19 Sequence 1, Appli
24	185.4	8.2	3921	17	US-10-366-288-1 Sequence 1036, Ap
25	185.4	8.2	3921	17	US-10-172-118-1036 Sequence 1036, Ap
26	185.4	8.2	3921	18	US-10-342-887-1036 Sequence 319, App
27	185.4	8.2	3921	18	US-10-287-226-319 Sequence 1, Appli
28	185.4	8.2	3921	19	US-10-648-593-1 Sequence 223, App
29	185.4	8.2	3921	20	US-10-473-974-223 Sequence 5, Appli
30	185.4	8.2	3921	21	US-10-616-403-5 Sequence 5, Appli
31	185.4	8.2	3935	21	US-10-897-711-1 Sequence 1, Appli
32	176.2	7.8	1518	18	US-10-280-576-24 Sequence 24, Appli
33	174.6	7.7	816	19	US-10-377-268-3 Sequence 3, Appli
34	174.6	7.7	1050	19	US-10-377-268-4 Sequence 4, Appli
35	174.6	7.7	3030	16	US-10-325-430-8 Sequence 8, Appli
36	174.6	7.7	3416	8	US-08-987-689A-1 Sequence 1, Appli
37	174.6	7.7	3416	15	US-10-292-524-1 Sequence 1, Appli
38	174.6	7.7	3416	17	US-10-464-805-2 Sequence 2, Appli
39	174.6	7.7	3416	17	US-10-305-720-1483 Sequence 1483, Ap
40	174.6	7.7	3416	21	US-10-860-066-1 Sequence 1, Appli
41	174.6	7.7	3544	14	US-10-161-803-51 Sequence 51, Appli
42	174.6	7.7	4089	17	US-10-291-808-13 Sequence 13, Appli
43	174.6	7.7	4089	19	US-10-620-052A-7 Sequence 7, Appli
44	174.6	7.7	4151	14	US-10-161-803-52 Sequence 52, Appli
45	174.6	7.7	4151	16	US-10-325-430-7 Sequence 7, Appli

ALIGNMENTS

RESULT 1

- US-10-003-295-1
- Sequence 1, Application US/10003295
- Publication No. US20020168741A1
- GENERAL INFORMATION:
- APPLICANT: GAN, Weiniu et al.
- TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
- TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
- TITLE OF INVENTION: THEREOF
- FILE REFERENCE: CL001183DIV
- CURRENT APPLICATION NUMBER: US/10/003,295
- CURRENT FILING DATE: 2001-12-06
- NUMBER OF SEQ ID NOS: 4
- SOFTWARE: FastSeq for Windows Version 4.0
- SEQ ID NO 1
- LENGTH: 2674
- TYPE: DNA
- ORGANISM: Homo sapiens
- US-10-003-295-1

Query Match	100.0%	Score 2256;	DB 13;	Length 2674;
Best Local Similarity	100.0%	Pred. No. 0;		
Matches 2256;	Conservative	0;	Mismatches	0;
Indels	0;	Gaps	0;	
Qy	1	ATGGGCTTCTTCTGAGCTGTGACGCGCCAGGCGGCTCTGACGAAATGACG	60	
Db	72	ATGGGCTTCTTCTGAGCTGTGACGCGCCAGGCGGCTCTGACGAAATGACG	131	
Qy	61	GAGCGCGAGCTTCTGCTACTCTGAGGCGATGAGAAATGATGCCCGCGGTCAGAGT	120	

132 GAGGCGAGCTTCGTCTACTGAGGCGCATGAAAGTGGATGGCCCGGCTCAAGGT 191
 121 GACAGGAGTATGACAGGATGCTTACCACTATGCTCCCTGCAAGAGAGTGGGGGCGAGC 180
 192 GACAGGAGTATGACAGGATGCTTACCACTATGCTCCCTGCAAGAGAGTGGGGGCGAGC 251
 181 CGGGCCATCAGCCCTGACAGCCCATCAGTCTGCTGGCTGAGATCACCAGCCAACT 240
 252 CGGGCCATCAGCCCTGACAGCCCATCAGTCTGCTGGCTGAGATCACCAGCCAACT 311
 241 GAGGCTGAGCCGCTTGTGGGCGAGCAGCAGAGGATCTGAATCAGGGGCCCTGAGC 300
 312 GAGGCTGAGCCGCTTGTGGGCGAGCAGCAGAGGATCTGAATCAGGGGCCCTGAGC 371
 301 AAGCTGAGCCTGCTCATCCGGGAAAGGCGAGAGCTTCGAAAGCTTACAGCAGAGTGG 360
 372 AAGCTGAGCCTGCTCATCCGGGAAAGGCGAGAGCTTCGAAAGCTTACAGCAGAGTGG 431
 361 CAGCAGCTGACAGGAGCTTACCAAGAGCCAGCAGGAGATTTGAGAGCTGAGAGC 420
 432 CAGCAGCTGACAGGAGCTTACCAAGAGCCAGCAGGAGATTTGAGAGCTGAGAGC 491
 421 CAGTACCGAGCTTGGCAAGGAGCAGTCCCAAGCCAGGCGAAGTACAGAGGCGCAGC 480
 492 CAGTACCGAGCTTGGCAAGGAGCAGTCCCAAGCCAGGCGAAGTACAGAGGCGCAGC 551
 481 AAGAGCAAGGAGCTGACAGGAGCCAGGAGATGCTGGCAGCCTTGGAGAGCTTTT 540
 552 AAGAGCAAGGAGCTGACAGGAGCCAGGAGATGCTGGCAGCCTTGGAGAGCTTTT 611
 541 GCTCACCACAAACCGCTATGCTGGGCGTGGGCGTGGGCGTGGGCGTGGGCGTGGG 600
 612 GCTCACCACAAACCGCTATGCTGGGCGTGGGCGTGGGCGTGGGCGTGGGCGTGGG 671
 601 CACAGAGCTTCTGCTCCCGGCTGCTGGGCTGCTGGGCTGCTGGGCTGCTGGGCTGCT 660
 672 CACAGAGCTTCTGCTCCCGGCTGCTGGGCTGCTGGGCTGCTGGGCTGCTGGGCTGCT 731
 661 TGCATCTCAGAGGAGATCCTGAGGAAATACCTGGAGATAGCAGCTGCTGGGCGTGGG 720
 732 TGCATCTCAGAGGAGATCCTGAGGAAATACCTGGAGATAGCAGCTGCTGGGCGTGGG 791
 721 GTGGTGGCATTCACCGGAGATGCTGAGGCTGCTGGGCTGCTGGGCTGCTGGGCTGCT 780
 792 GTGGTGGCATTCACCGGAGATGCTGAGGCTGCTGGGCTGCTGGGCTGCTGGGCTGCT 851
 781 TACCAAGGCTTCTGCGACAGTATGGGTCCGACCTGACCTGCTCCACCTGCTGCTGCT 840
 852 TACCAAGGCTTCTGCGACAGTATGGGTCCGACCTGACCTGCTCCACCTGCTGCTGCT 911
 841 GATGAGTCACTGCTGAGAGGATGAAACGCTGGAGCTGCTGGGCTGCTGGGCTGCTGG 900
 912 GATGAGTCACTGCTGAGAGGATGAAACGCTGGAGCTGCTGGGCTGCTGGGCTGCTGG 971
 901 CTGACTGTGAGAGCTGACAGCAGCTGACCTGACCTGACCTGACCTGACCTGACCTG 960
 972 CTGACTGTGAGAGCTGACAGCAGCTGACCTGACCTGACCTGACCTGACCTGACCTG 1031
 961 ACCGAGATGCTGCTGAGGCGAGGAGATGGTTACCGAGCTGCAAGGAGCTCCGGAAT 1020
 1032 ACCGAGATGCTGCTGAGGCGAGGAGATGGTTACCGAGCTGCAAGGAGCTCCGGAAT 1091
 1021 GAAGAGGAGACACCCACCCCGGAGCGGCTGAGCTGCTGGGCGAGGAGGAGGAGTGTG 1080
 1092 GAAGAGGAGACACCCACCCCGGAGCGGCTGAGCTGCTGGGCGAGGAGGAGGAGTGTG 1151
 1081 CAAGAAGCACTGACAGGCGCTGAGGATGAGCTGTGACCCAGCAGGAGCTGACGCGCC 1140
 1152 CAAGAAGCACTGACAGGCGCTGAGGATGAGCTGTGACCCAGCAGGAGCTGACGCGCC 1211
 1141 CAGGAGTGTGCTGACAGCAGCTGAGCAGCTGGGCGGCGGCGAGGCGGCGGCTGCTG 1200
 1212 CAGGAGTGTGCTGACAGCAGCTGAGCAGCTGGGCGGCGGCGAGGCGGCGGCGGCTG 1271

1201 CTCTCTGAGGATGACCGCCATCTCGAGCTGCTCTCGGAGCAGGAGCGAGAGGGGGAAGG 1260
 1272 CTCTCTGAGGATGACCGCCATCTCGAGCTGCTCTCGGAGCAGGAGCGAGAGGGGGAAGG 1331
 1261 ACACCCAGCTGAGATCCTTAAGAGCCACATCTCAGGAATCTTCCGCCCCCAAGTTCTCG 1320
 1332 ACACCCAGCTGAGATCCTTAAGAGCCACATCTCAGGAATCTTCCGCCCCCAAGTTCTCG 1391
 1321 AACCTTACCGACTGGAAGGGGAAAGCTTCTAGCATCTTCTAGCATCTTCTAGCATCTT 1451
 1392 AACCTTACCGACTGGAAGGGGAAAGCTTCTAGCATCTTCTAGCATCTTCTAGCATCTT 1451
 1381 CTGAGACCCAGCAGCCCTCACCAGAGAGTGGTGTCTCTGACAGAGGCTGTGCCC 1440
 1452 CTGAGACCCAGCAGCCCTCACCAGAGAGTGGTGTCTCTGACAGAGGCTGTGCCC 1511
 1441 AAGGACAAGTGGTGTCTGAAACCATGAGGACCTGCTGGTGTGGTGTGAGCAGGAGT 1500
 1512 AAGGACAAGTGGTGTCTGAAACCATGAGGACCTGCTGGTGTGGTGTGAGCAGGAGT 1571
 1501 AACTTTGGCGAAGTGTTCAGCGGACGCTTGGGAGCGGCGGAGCGGAGCAACACCTG 1560
 1572 AACTTTGGCGAAGTGTTCAGCGGACGCTTGGGAGCGGCGGAGCGGAGCAACACCTG 1631
 1561 TCTTTGTCGAGAGAGCTCCCACTGACCTCAAGGCGCAAGTTCTTACAGGAGCGAGATC 1620
 1632 TCTTTGTCGAGAGAGCTCCCACTGACCTCAAGGCGCAAGTTCTTACAGGAGCGAGATC 1691
 1621 CTGAGAGAGTACAGCAGCCCGGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1680
 1692 CTGAGAGAGTACAGCAGCCCGGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1751
 1681 CCCATCTACATCTGCTGAGGAGCTTGTGCAAGGCGGCGGAGCTTCTGAGCTTCTTCC 1740
 1752 CCCATCTACATCTGCTGAGGAGCTTGTGCAAGGCGGCGGAGCTTCTGAGCTTCTTCC 1811
 1741 GAGGGGGCGGCTGCGGCTGCAAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1800
 1812 GAGGGGGCGGCTGCGGCTGCAAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1871
 1801 ATGGAGTACCTGAGAGCAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1860
 1872 ATGGAGTACCTGAGAGCAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1931
 1861 GTGACAGAGAAATGTCTGAGATCAGTCACTTGGGATGCTCCGAGAGCAAGCCGAT 1920
 1932 GTGACAGAGAAATGTCTGAGATCAGTCACTTGGGATGCTCCGAGAGCAAGCCGAT 1991
 1921 GGGTCTATGACGCTCAGGGGCGCTCAGAGCAAGTCCCGTGAAGTGGACCGCCTGAG 1980
 1992 GGGTCTATGACGCTCAGGGGCGCTCAGAGCAAGTCCCGTGAAGTGGACCGCCTGAG 2051
 1981 GCGCTTAACTAGCGCGCTTCTCTCCGAAAGCGAGCTGAGCTTTGGCATCTTGCTC 2040
 2052 GCGCTTAACTAGCGCGCTTCTCTCCGAAAGCGAGCTGAGCTTTGGCATCTTGCTC 2111
 2041 TGGAGAGCTTACGCTGCGGCGCTTCCCTCTATCCCACTCAGCAATCAGCAGACCG 2100
 2112 TGGAGAGCTTACGCTGCGGCGCTTCCCTCTATCCCACTCAGCAATCAGCAGACCG 2171
 2101 GAGTTGTGAGAGAGGGGCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2160
 2172 GAGTTGTGAGAGAGGGGCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2231
 2161 AGGCTCATGAGAGAGTCTGCGCTTATGAGCTTGGGCGGCGGCGGCGGCGGCTTACG 2220
 2232 AGGCTCATGAGAGAGTCTGCGCTTATGAGCTTGGGCGGCGGCGGCGGCGGCTTACG 2291
 2221 TACCAGAGCTGACAGAGCATCCGAAAGCGGCTCGG 2256
 2292 TACCAGAGCTGACAGAGCATCCGAAAGCGGCTCGG 2327

RESULT 2
US-10-660-763-1
; Sequence 1, Application US/10660763
; Publication No. US20040063130A1
; GENERAL INFORMATION:
; APPLICANT: GAN, Weiniu et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001183DIV11
; CURRENT APPLICATION NUMBER: US/10/660,763
; CURRENT FILING DATE: 2003-09-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2674
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-660-763-1
Query Match 100.0%; Score 2256; DB 18; Length 2674;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2256; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGGGCTTCTCTTCTGAGCTGTGAGCCGCCAGGGCCACCGGGTCTCTGACGCAAAATGCAG 60
DB 72 ATGGGCTTCTCTTCTGAGCTGTGAGCCGCCAGGGCCACCGGGTCTCTGACGCAAAATGCAG 131
QY 61 GAGGCCGAGCTTCTGCTACTGGAGGCGATGAGAAAGTGGATGGCCAGCGGGTCAAGAT 120
DB 132 GAGGCCGAGCTTCTGCTACTGGAGGCGATGAGAAAGTGGATGGCCAGCGGGTCAAGAT 191
QY 121 GACAGGAGTATGAGGACTGCTTCAACACATGTCCTCGAGGACAGTGGGGCCAGAGC 180
DB 192 GACAGGAGTATGAGGACTGCTTCAACACATGTCCTCGAGGACAGTGGGGCCAGAGC 251
QY 181 CGGGCCATCAGCCCTGACAGCCCATCAGTCAGTCTGAGTCTGGGCTGAGATCAACAGCAAACT 240
DB 252 CGGGCCATCAGCCCTGACAGCCCATCAGTCAGTCTGAGTCTGGGCTGAGATCAACAGCAAACT 311
QY 241 GAGGCCCTGAGCCCTGCTGCTGGGCGAGCAGCGAGGATCTGACTCAGGCGCCCTGAGC 300
DB 312 GAGGCCCTGAGCCCTGCTGCTGGGCGAGCAGCGAGGATCTGAACTCAGGCGCCCTGAGC 371
QY 301 AAGCTGAGCTGCTGCTCATCCGGGAAACGGCAGCAGCTTCGCAAGACCTACAGCGAGCAGTGG 360
DB 372 AAGCTGAGCTGCTGCTCATCCGGGAAACGGCAGCAGCTTCGCAAGACCTACAGCGAGCAGTGG 431
QY 361 CAGCAGCTGACGAGGAGCTCACCAAGACCCACAGCCAGGACATTTGAGAGCTGAAGAGC 420
DB 432 CAGCAGCTGACGAGGAGCTCACCAAGACCCACAGCCAGGACATTTGAGAGCTGAAGAGC 491
QY 421 CAGTACCCAGCTTGGCAGCGGACAGTCCCAAGCCAGCGCAGTACAGGAGGCGCAGC 480
DB 492 CAGTACCCAGCTTGGCAGCGGACAGTCCCAAGCCAGCGCAGTACAGGAGGCGCAGC 551
QY 481 AAAGCAAGGACCTGACAGGCGCAAGGACAAAGTATGTGGCAGCCTGTGGAAGCTCTTT 540
DB 552 AAAGCAAGGACCTGACAGGCGCAAGGACAAAGTATGTGGCAGCCTGTGGAAGCTCTTT 611
QY 541 GCTCACCACAAACCGCTATGTGCTGGGCGTGGGGCTGCGGAGTACACCAAGAGGAGTGGCT 600
DB 612 GCTCACCACAAACCGCTATGTGCTGGGCGTGGGGCTGCGGAGTACACCAAGAGGAGTGGCT 671
QY 601 CACGAGCTCTGCTGCTGGGCGCTGCTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
DB 672 CACGAGCTCTGCTGCTGGGCGCTGCTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 731
QY 661 TGCATCTGAAGGAGATCTTGCAGGAATATCTGGAGATTAGCAGCTGCTGGGAGTGCAGGTGAG 720
DB 732 TGCATCTGAAGGAGATCTTGCAGGAATATCTGGAGATTAGCAGCTGCTGGGAGTGCAGGTGAG 791

QY 721 GTGGTGGCCATTCCACCGGAGATGGCTGAGCTGTGCTGCCGCGCATCCAGCCCTGAGGCTGAG 780
DB 792 GTGGTGGCCATTCCACCGGAGATGGCTGAGCTGTGCTGCCGCGCATCCAGCCCTGAGGCTGAG 851
QY 781 TACCAAGGCTTCTGCGACAGATGAGTCCGCGACCTGAGCTGCCACCTGCTGTCACGTTTC 840
DB 852 TACCAAGGCTTCTGCGACAGATGAGTCCGCGACCTGAGCTGCCACCTGCTGTCACGTTTC 911
QY 841 GATGAGTCACTGCTTGGAGGAGGTGAACCGCTGAGGCTTGGGAGGCTCCAGCTGAACGAG 900
DB 912 GATGAGTCACTGCTTGGAGGAGGTGAACCGCTGAGGCTTGGGAGGCTCCAGCTGAACGAG 971
QY 901 CTGACTGTGGAGAGCGTGCAGCACACGCTGACCTCAGTGACAGATGAGCTGGCTGTGGCC 960
DB 972 CTGACTGTGGAGAGCGTGCAGCACACGCTGACCTCAGTGACAGATGAGCTGGCTGTGGCC 1031
QY 961 ACCGAGATGCTGTTCAAGGGCGGAGGAGATGTTTACGAGCTGCAACAGAGGAGCTCCGGAAT 1020
DB 1032 ACCGAGATGCTGTTCAAGGGCGGAGGAGATGTTTACGAGCTGCAACAGAGGAGCTCCGGAAT 1091
QY 1021 GAAGAGGAGAAACCCACCCCGGAGCGGGTGCAGCTGCTGGGCAAGAGGCAAGTGTCTG 1080
DB 1092 GAAGAGGAGAAACCCACCCCGGAGCGGGTGCAGCTGCTGGGCAAGAGGCAAGTGTCTG 1151
QY 1081 CAAGAAGCACTGCAGGGGCTGCAGGTTAGCGCTGTGCAGCCAGGCAAGCTGCAGGCCAG 1140
DB 1152 CAAGAAGCACTGCAGGGGCTGCAGGTTAGCGCTGTGCAGCCAGGCAAGCTGCAGGCCAG 1211
QY 1141 CAGGAGTGTCTGCAGACCAAGCTGAGGAGCACTCGGGCCCGGCGAGCCCGCTGTGCTG 1200
DB 1212 CAGGAGTGTCTGCAGACCAAGCTGAGGAGCACTCGGGCCCGGCGAGCCCGCTGTGCTG 1271
QY 1201 CTCTTCAGGATGACCGCCACTCCAGCTGCTCTCGAGCAGGAGCGAGGCGGAGG 1260
DB 1272 CTCTTCAGGATGACCGCCACTCCAGCTGCTCTCGAGCAGGAGCGAGGCGGAGG 1331
QY 1261 ACACCACGCTGAGATCTCTTAAGAGCCACATCTCAGGAATCTTCGCGCCCAAGTTCCTG 1320
DB 1332 ACACCACGCTGAGATCTCTTAAGAGCCACATCTCAGGAATCTTCGCGCCCAAGTTCCTG 1391
QY 1321 AACCTGTACCGACTGGAAGGGAGGCTTTCCTAGCATTCCTTTGCTCATCGACCACCTA 1380
DB 1392 AACCTGTACCGACTGGAAGGGAGGCTTTCCTAGCATTCCTTTGCTCATCGACCACCTA 1451
QY 1381 CTGAGCACCCAGCAGCCCTCCACCAAGAGAGTGGTGTCTCTGCAAGGAGGCTGTGCC 1440
DB 1452 CTGAGCACCCAGCAGCCCTCCACCAAGAGAGTGGTGTCTCTGCAAGGAGGCTGTGCC 1511
QY 1441 AAGGACAAAGTGGGTGCTGAACCATGAGGACCTGGTGTGGGTGAGCAGATTTGACGCGGG 1500
DB 1512 AAGGACAAAGTGGGTGCTGAACCATGAGGACCTGGTGTGGGTGAGCAGATTTGACGCGGG 1571
QY 1501 AACCTTTGGCGAGTGTTCAGGGGAGCCCTGCGAGCGGAGCAACACCTTGGTGGGCTGAAG 1560
DB 1572 AACCTTTGGCGAGTGTTCAGGGGAGCCCTGCGAGCGGAGCAACACCTTGGTGGGCTGAAG 1631
QY 1561 TCTTTGCGAGAGACGCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGGAGGATC 1620
DB 1632 TCTTTGCGAGAGACGCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGGAGGATC 1691
QY 1621 CTGAAGCAGTACAGCCACCCCAACATCTGCTGCTGCTCATTTGGTGTCTGACCCAGAGCAG 1680
DB 1692 CTGAAGCAGTACAGCCACCCCAACATCTGCTGCTGCTCATTTGGTGTCTGACCCAGAGCAG 1751
QY 1681 CCATCTACATCTGATGAGCTTGTGAGGGGGGAGCTTCTGAGCTTCTCCCGCAGC 1740
DB 1752 CCATCTACATCTGATGAGCTTGTGAGGGGGGAGCTTCTGAGCTTCTCCCGCAGC 1811
QY 1741 GAGGGGGCCCGCTGCGGGTGAAGACTCTGCTGAGATGCTGGGGGATGACAGTGTCTGGC 1800
DB 1812 GAGGGGGCCCGCTGCGGGTGAAGACTCTGCTGAGATGCTGGGGGATGACAGTGTCTGGC 1871
QY 1801 ATGGAGTACCTGAGAGCAAGTCTGCTGCATCCACCGGAGCCTGCTGCTGCGAACTGCTG 1860

Wed Aug 10 16:17:23 2005

Db	1872	ATGGAGTACTGGAGCAAGTGTGTCATCCACCGGACCTGGCTGCTCGAACTGCCTG	1931	Qy	121	GACAGGAGTATGACGAGCTGCTTACCAATGTCCTCCAGGACAGTGGGGCCAGAGC	180
Qy	1861	GTGACAGAGAAGATGCTCTGAAGATCAGTGACTTTGGGATGTCCCGAGGAGCCGAT	1920	Db	308	GACAGGAGTATGACGAGTGTGCTTACCAATGTCCTCCAGGACAGTGGGGCCAGAGC	367
Db	1932	GTGACAGAGAAGATGCTCTGAAGATCAGTGACTTTGGGATGTCCCGAGGAGCCGAT	1991	Qy	181	CGGGCCATCAGCCCTGACAGCCCATCAGTCACTCTGGGCTGAGATCACAGCCAAACT	240
Qy	1921	GGGGTCTATGACGCTCAGGGGCTCAGCAAGTCCCGGTGAAGTGGACCGCACTTGAG	1980	Db	368	CGGGCCATCAGCCCTGACAGCCCATCAGTCACTCTGGGCTGAGATCACAGCCAAACT	427
Db	1992	GGGGTCTATGACGCTCAGGGGCTCAGCAAGTCCCGGTGAAGTGGACCGCACTTGAG	2051	Qy	241	GA-GGGCTGAGCCGCTTGTCTGGGGCAGCAAGAGAGATCTGAACTCAGGGGCCCTGAG	299
Qy	1981	GCCCTTAACCTACGGCCGCTACTCTCCGAAAGCAGCTGTGGAGCTTTGGCATCTTGCTC	2040	Db	428	GAGGGCCCTGAGCCGCTTGTCTGGGGCAGCAAGAGAGATCTGAACTCAGGGGCCCTGAG	487
Db	2052	GCCCTTAACCTACGGCCGCTACTCTCCGAAAGCAGCTGTGGAGCTTTGGCATCTTGCTC	2111	Qy	300	CAAGCTGAGCCCTGCTCATCCGGGAACCGGACAGCTTTCGCAAGACCTTACAGCAGCAGTG	359
Qy	2041	TGGAGACCTTACGCTGGGGGCTCCCTATCCCAACTCAGCAATCAGCAGACCGG	2100	Db	488	CAAGCTGAGCCCTGCTCATCCGGGAACCGGACAGCTTTCGCAAGACCTTACAGCAGCAGTG	547
Db	2112	TGGAGACCTTACGCTGGGGGCTCCCTATCCCAACTCAGCAATCAGCAGACCGG	2171	Qy	360	GCAGCAGCTGACAGCAGGAGCTCAACAAGCCACAGCAGGACATTGAGAAGCTTGAAGAG	419
Qy	2101	GAGTTTGGAGAGGGGGGCGCTCTGCCCTGCGCAGAGCTGTCTGATCGCGTGTTC	2160	Db	548	GCAGCAGCTGACAGCAGGAGCTCAACAAGCCACAGCAGGACATTGAGAAGCTTGAAGAG	607
Db	2172	GAGTTTGGAGAGGGGGGCGCTCTGCCCTGCGCAGAGCTGTCTGATCGCGTGTTC	2231	Qy	420	CMATACCGAGCTCTGGCAGCGGACAGTGCCTCAAGCCAAAGCCAGAGTACAGAGGGCAG	479
Qy	2161	AGGCTCATGAGCAGTGTGGGCTATGAGCTGGGCGAGCGGCCAGCTTCAAGCACATC	2220	Db	608	CCAGTACCGAGCTCTGGCAGCGGACAGTGCCTCAAGCCAAAGCCAGAGTACAGAGGGCAG	667
Db	2232	AGGCTCATGAGCAGTGTGGGCTATGAGCTGGGCGAGCGGCCAGCTTCAAGCACATC	2291	Qy	480	CAAGAACAAGGACCGTGAACAAGCCAAAGGACCAAGATATGTACCGAGCCTGTGGAAGCTCTT	539
Qy	2221	TACCGAGCTGCAGAGCATCCGAAGCGGATCGG	2256	Db	668	CAAGAACAAGGACCGTGAACAAGCCAAAGGACCAAGATATGTACCGAGCCTGTGGAAGCTCTT	727
Db	2292	TACCGAGCTGCAGAGCATCCGAAGCGGATCGG	2327	Qy	540	TGCTCACCACAAACCGCTATGTCTGGGCGTGGGGCTGCGAGCTTACACACAGCAGCA	599
RESULT 3							
US-10-240-965-256							
; Sequence 256, Application US/10240965							
; Publication No. US20030165924A1							
; GENERAL INFORMATION:							
; APPLICANT: INCYTE GENOMICS, INC.							
; APPLICANT: SHIFFMAN, Dov							
; APPLICANT: SOMOGYI, Roland							
; APPLICANT: LAWN, Richard M.							
; APPLICANT: SEILHAMER, Jeffrey J.							
; APPLICANT: PORTER, Gordon J.							
; APPLICANT: MIKITA, Thomas							
; APPLICANT: TAI, Julie							
; TITLE OF INVENTION: GENES EXPRESSED IN FOAM CELL DIFFERENTIATION							
; FILE REFERENCE: PA-0025 PCT							
; CURRENT APPLICATION NUMBER: US/10/240,965							
; CURRENT FILING DATE: 2002-10-04							
; PRIOR APPLICATION NUMBER: 60/195,106							
; PRIOR FILING DATE: 2000-04-05							
; NUMBER OF SEQ ID NOS: 276							
; SOFTWARE: PERL Program							
; SEQ ID NO 256							
; LENGTH: 2889							
; TYPE: DNA							
; ORGANISM: Homo sapiens							
; FEATURE:							
; NAME/KEY: misc feature							
; OTHER INFORMATION: Incyte ID No. US20030165924A1 997347.6							
US-10-240-965-256							
Query Match 89.7%; Score 2023.4; DB 16; Length 2889;							
Best local Similarity 91.4%; Pred. No. 0;							
Matches 2255; Conservative 0; Mismatches 1; Indels 211; Gaps 2;							
Qy	1	ATGGGCTTCTTCTGAGCTGTGCAGCCCGGAGGCGGCTCTGAGCAAAATGCAG	60	Qy	1080	GCAAGAAGCATGTCAGGGGCTGCAGGTAGCGCTGTGCAGCCAGGCCCAAGCTGCAGGCCCA	1139
Db	188	ATGGGCTTCTTCTGAGCTGTGCAGCCCGGAGGCGGCTCTGAGCAAAATGCAG	247	Db	1268	GCAAGAAGCATGTCAGGGGCTGCAGGTAGCGCTGTGCAGCCAGGCCCAAGCTGCAGGCCCA	1327
Qy	61	GAGGCCGAGCTTCTGCTACTTGGAGGGCATGAGAAAGTGTATGCCCGAGGGGTCAAGGT	120	Qy	1140	GCAGGAGTGTGTGACAGCAAAAGCTTGGAGCACCTTGGGCCCCGGGAGCCCCCGCTGTGCT	1199
Db	248	GAGGCCGAGCTTCTGCTACTTGGAGGGCATGAGAAAGTGTATGCCCGAGGGGTCAAGGT	307	Db	1328	GCAGGAGTGTGTGACAGCAAAAGCTTGGAGCACCTTGGGCCCCGGGAGCCCCCGCTGTGCT	1387

QY 1200 GCTCCTGAGGATGACCGCCACTCCACGTCGTCTCTCGAGCAGGAGCGAGGGGGGAAG 1259
Db 1388 GCTCCTGAGGATGACCGCCACTCCACGTCGTCTCTCGAGCAGGAGCGAGGGGGGAAG 1447
QY 1260 GACACCCACGCTGAGAGATCCTTAAGAGCCACATCTCAGGAATCTTCGCGCCCAAGTTCTC 1319
Db 1448 GACACCCACGCTGAGAGATCCTTAAGAGCCACATCTCAGGAATCTTCGCGCCCAAGTTCTC 1507
QY 1320 G----- 1320
Db 1508 GCTCCCTCCACCGCTGAGGCTCATTTCCGGAGGTGCAGAGCCCTGCTGATGAGCAGCTGTG 1567
QY 1321 ----- 1320
Db 1568 GTACACCGGGCCATCCCGAGGCGCAGAGGTGGCTGAGCTGCTGGTGCACTCTGGGGACTT 1627
QY 1321 ----- 1320
Db 1628 CTTGGTGGGAGAGCCAGGGCAAGCAGGAGTACGTCTGTCGGTGTGTGGATGTGTCT 1687
QY 1321 -----AACCTGTACCGACTTGAAGGGGAAGGCTT 1349
Db 1688 GCGCCGCGACTTCATCATCCAGTCTCTGGATAACCTGTACCGACTTGAAGGGGAAGGCTT 1747
QY 1350 TCCTAGCATTCCTTTGCTCATCGACCACTACTGAGCACCAGCAGCCCTTCCACCAAGAA 1409
Db 1748 TCCTAGCATTCCTTTGCTCATCGACCACTACTGAGCACCAGCAGCCCTTCCACCAAGAA 1807
QY 1410 GAGTGGTGTGCTCTGCACAGGCTGTGCCAAGGACAAGTGGTGTCTGAACCATGAGGA 1469
Db 1808 GAGTGGTGTGCTCTGCACAGGCTGTGCCAAGGACAAGTGGTGTCTGAACCATGAGGA 1867
QY 1470 CTTGGTGTGGGTGAGCAGATTTGACCGGGGAACTTTGGCGAAGTGTTCAGCGGACGCT 1529
Db 1868 CTTGGTGTGGGTGAGCAGATTTGACCGGGGAACTTTGGCGAAGTGTTCAGCGGACGCT 1927
QY 1530 GCAGCGCGACAACCCCTGTGGCGGTGAAGTCTTGTGAGAGACGCTCCACCTGACCT 1589
Db 1928 GCAGCGCGACAACCCCTGTGGCGGTGAAGTCTTGTGAGAGACGCTCCACCTGACCT 1987
QY 1590 CAAGGCGAAGTTTCTACAGAGGCGAGGATCCTGAAGCAGTACAGCCACCCCAACATCGT 1649
Db 1988 CAAGGCGAAGTTTCTACAGAGGCGAGGATCCTGAAGCAGTACAGCCACCCCAACATCGT 2047
QY 1650 GCCTCTCATTTGGTGTCTGCACCCAGAGAGCCCATCTACATCGTCTATGGAGCTTGTGCA 1709
Db 2048 GCCTCTCATTTGGTGTCTGCACCCAGAGAGCCCATCTACATCGTCTATGGAGCTTGTGCA 2107
QY 1710 GGGGGGCGACTTCTGACCTTCTCCGACGAGGGGGCGGCTGCGGGTGAAGACTCT 1769
Db 2108 GGGGGGCGACTTCTGACCTTCTCCGACGAGGGGGCGGCTGCGGGTGAAGACTCT 2167
QY 1770 GCTGCAGATGGTGGGGATGCAGTCTGCGATGAGTACTCGAGAGCAAGTCTGCTGCAT 1829
Db 2168 GCTGCAGATGGTGGGGATGCAGTCTGCGATGAGTACTCGAGAGCAAGTCTGCTGCAT 2227
QY 1830 CCACCGGACCTGCTGCTCGAACTCCCTGGTGACAGAGAAAGTCTCTGAAGATCAG 1889
Db 2228 CCACCGGACCTGCTGCTCGAACTCCCTGGTGACAGAGAAAGTCTCTGAAGATCAG 2287
QY 1890 TGACTTTGGGATGTCGAGAGGAAGCGGATGCGGTCTATGACGCTTCAGGGGCGCTCAG 1949
Db 2288 TGACTTTGGGATGTCGAGAGGAAGCGGATGCGGTCTATGACGCTTCAGGGGCGCTCAG 2347
QY 1950 ACAGTCCCCTGAGTGGACCGCAGCTGAGGCGCTTAACTACGCGCGCTACTCTCCGA 2009
Db 2348 ACAGTCCCCTGAGTGGACCGCAGCTGAGGCGCTTAACTACGCGCGCTACTCTCCGA 2407
QY 2010 AAGCGAGCTGTGGAGCTTTGGCATCTTGTCTCTGGGAGACCTTTCAGCGCTGGGGGCGCTCCCC 2069
Db 2408 AAGCGAGCTGTGGAGCTTTGGCATCTTGTCTCTGGGAGACCTTTCAGCGCTGGGGGCGCTCCCC 2467
QY 2070 CTATCCCAACTCAGCAATCAGCAGACACCGGAGTTTGTGGAGAGGGGGCGGCTCTGCC 2129

Db 2468 CTATCCCAACTCAGCAATCAGCAGACACGGGAGTTTGTGGAGAGGGGGCGGCTCTGCC 2527
QY 2130 CTCCCCAGAGCTGTCTCTGATGCCGCTGTTCAGGCTCATGGAGCAGTGTCTGGGCTATGA 2189
Db 2528 CTGCCAGAGCTGTCTCTGATGCCGCTGTTCAGGCTCATGGAGCAGTGTCTGGGCTATGA 2587
QY 2190 GCTGGGCGAGCGGCCAGCTTACGACCATCTTACCAGGAGCTGCAGAGCATCCGAAAGCG 2249
Db 2588 GCTGGGCGAGCGGCCAGCTTACGACCATCTTACCAGGAGCTGCAGAGCATCCGAAAGCG 2647
QY 2250 GCATCGG 2256
Db 2648 GCATCGG 2654

RESULT 4
US-10-887-553A-240
; Sequence 240, Application US/10887553A
; Publication No. US20050085436A1
; GENERAL INFORMATION:
; APPLICANT: Garza, Dan
; APPLICANT: Li, Hao
; TITLE OF INVENTION: Method to treat conditions associated
; TITLE OF INVENTION: with insulin signalling dysregulation
; FILE REFERENCE: 4-33262
; CURRENT APPLICATION NUMBER: US/10/887,553A
; PRIOR FILING DATE: 2004-07-08
; PRIOR APPLICATION NUMBER: 60/485,883
; PRIOR FILING DATE: 2003-08-07
; NUMBER OF SEQ ID NOS: 1208
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 240
; LENGTH: 2950
; TYPE: DNA
; ORGANISM: human
; US-10-887-553A-240

Query Match 14.6%; Score 328.8; DB 21; Length 2950;
Best Local Similarity 62.0%; Pred. No. 1.8e-72;
Matches 573; Conservative 0; Mismatches 342; Indels 9; Gaps 3;

QY 1321 AACCTGTACCGACTTGAAGGGGAAGGCTTCTTAGCATTCCTTTGCTCATCGACCACCTA 1380
Db 1918 AACATGTATCGATTTCGAGGGCACTGGGTTTCAAAACATTCCTCAACTTATAGATCATC 1977
QY 1381 CTGAGCACCCAGCAGCCCTCACCAAGAGAGTGTGTCTCTGCACAGGCTGTGCC 1440
Db 1978 TATACAAACAAACAGGTCTATCAAGAAATCAAGGTGTAGTCTGCTGAATCCTATTCT 2037
QY 1441 AAGGACAAG---TGGGTGCTGAACCATGAGGACCTGGTGTGGTGAGCAGATTGGACGG 1497
Db 2038 AAGGACAAGAAATGGATTCTCAGTCATGAAGATGTATATGGAGAAATTTACTGGGCAAG 2097
QY 1498 GGAACCTTTGGCGAAGTGTTCAGCGACGGCTCGGAGCCGACAAACCCCTGGTGGCGGTG 1557
Db 2098 GGAATTTTGGTGAGTATATAAG---GCACATTAAGGATATAAACTTCTGTGTCTGTT 2154
QY 1558 AAGTCTTGTGAGAGAGCGTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAGGCGAGG 1617
Db 2155 AAACATGTAAAGAAAGATCTTCTCAGGAATTTGAAATAAAATTTTACAGAGGCCAAA 2214
QY 1618 ATCCTGAAGCAGTACAGCCACCCCAACATCGTGCCTCATTTGGTGTCTGTCACCCAGAAG 1677
Db 2215 ATTCTCAAGCAATATGATCATCCCAATATTGTCAAACTTATAGAGTTTGCACACAAAGA 2274
QY 1678 CAGCCCATCTACATCTCATGAGCTTGTGAGGGGGGAGACTTCTGACCTTCTCCCGC 1737
Db 2275 CAGCCTGTCTACATCATATTATGAACTGGTTTTCAGGAGGTGATTTCTCCTCACCTTCTGAGA 2334
QY 1738 ACGAGGGGGCGGCGCTGCGGGTGAAGCTCTCTGCTCAGATGGTGGGGGATGCGAGTCT 1797
Db 2335 AGGAAGAGGATGAACATAAACTCAAAACAGTTAGTGAATTTTTCATTAGACGCTGTGCT 2394

QY 1798 GGATGGAGTACCTGGAGCAAGTCTGCATCCACCGGAGCTGGCTCTCGRACTGC 1857
Db 2395 GGTATGTTGTATCTCGAGAGTAAAACTGTATTACAGGGACCTTCTGCAAGAACTGC 2454
QY 1858 CTGGTGACAGAGAAGTATCTCTGAAGATCAGTGAATTTGGGATGTCCCGAGAGGAAGCC 1917
Db 2455 CTGGTAGGTGAAATATATGTTCTGAAATCAGTGACTTTTGAATGTCTGTCAAGAGGAT 2514
QY 1918 GATGGGTCTATGACGCTCAGGGGCGCTCAGACAAAGTCCCGTGAAGTGGACCGACCT 1977
Db 2515 GGTGGAGTGTATTCATCTTC- --TGGCTTAAAGCAGATTCCCATTAATATGACAGCACCG 2571
QY 1978 GAGGCGCTTAACTACGCGCTACTCTCCGAAAGCAGCTGTGGAGCTTTGGCATCTTG 2037
Db 2572 GAAGCTCTTAAATATGGAGATACAGTTACAGAGTACAGCTGTGGAGCTTTGGCATCTT 2631
QY 2038 CTCTGGGAGACCTTTCAGCTGGGGGCGCTCCCGCTATCCCAACCTCAGCAATCAGACAGA 2097
Db 2632 CTCTGGGAGACCTTCAGCTTAGGGTTTGTCCGTACCTGGAATGACAAATCAGCAAGCA 2691
QY 2098 CGGAGTTTGTGAAAGGGGGCGCTCTCCCTGCCAGAGCTGTCTGTATGCGGTG 2157
Db 2692 AGAGAGCAAGTAGAAAGAGGATACCGGATGTCTAGCTCCCGACACTGTCCAGAGGATAT 2751
QY 2158 TTCAGGCTCATGGAGCAGTCTGGGCGCTATGAGCTGGGCGAGCGGCCAGCTTCAGCAC 2217
Db 2752 TCCAAATCATATGAAGTGTGGGATTATAAACCCTGAANAATCGCCCTAAGTTCAAGTAA 2811
QY 2218 ATCTACAGGAGCTGCAGACATC 2241
Db 2812 CTTCAGAAAGAGCTCACTATCATC 2835

RESULT 5

US-09-918-995-1503
; Sequence 1503, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyeq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1503
; LENGTH: 449
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(449)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-1503

Query Match 14.5%; Score 326.8; DB 10; Length 449;
Best Local Similarity 99.4%; Pred. No. 4.3e-72;
Matches 328; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1707 GCAGGGGGGACCTTCTGACCTTCTCCGACGAGGGGGCGCGCTGGGGTGAAGAC 1766
Db 120 GCGAGGGGGGACCTTCTGACCTTCTCCGACGAGGGGGCGCGCTGGGGTGAAGAC 179
QY 1767 TCTGCTCAGATGTGGGGATGACGTGTGGCATGGAGTACCTGAGAGCAAGTCTG 1826
Db 180 TCTGCTCAGATGTGGGGATGACGTGTGGCATGGAGTACCTGAGAGCAAGTCTG 239
QY 1827 CATCCCGGACCTGGCTCGGAATGCTGTCAGAGAGAAATGTCCTGAAGAT 1886

Db 240 CATCCACCGGACCTGGCTGTGCTCGAACTGCTGTGACAGAGAAATGTCTGAAGAT 299
QY 1887 CAGTCACTTTGGGATGTCCCGAGAGAAAGCCGATGGGTCTATGAGCTCAGGGGCGCT 1946
Db 300 CAGTCACTTTGGGATGTCCCGAGAGAAAGCCGATGGGTCTATGAGCTCAGGGGCGCT 359
QY 1947 CAGACAAGTCCCGGTGAAGTGGACCGCACCTGAGGCCCTTAACTACGGCGCTACTCCTC 2006
Db 360 CAGACAAGTCCCGGTGAAGTGGACCGCACCTGAGGCCCTTAACTACGGCGCTACTCCTC 419
QY 2007 CGAAAGCAGCTGTGGAGCTTTGGCATCTT 2036
Db 420 CGAAAGCAGCTGTGGAGCTTTGGCATCTT 449

RESULT 6

US-09-948-802-5
; Sequence 5, Application US/09948802
; Publication No. US20020172981A1
; GENERAL INFORMATION:
; APPLICANT: ROBISON, KEITH E.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE AND
; FILE REFERENCE: MN1-090
; CURRENT APPLICATION NUMBER: US/09/948,802
; PRIOR FILING DATE: 2001-09-07
; PRIOR APPLICATION NUMBER: 09/387,212
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: All occurrences of n indicate any nucleotide
US-09-948-802-5

Query Match 13.1%; Score 296.2; DB 9; Length 361;
Best Local Similarity 97.4%; Pred. No. 2e-64;
Matches 333; Conservative 0; Mismatches 4; Indels 5; Gaps 3;
QY 1613 CGAGGATCCTGAAGCAGTACAGCCACCCCAACATCGTGGTCTCATTTGGTGTCTGCACCC 1672
Db 20 CNAGGATCCTGAAGCAGTACAGCCACCCCAACATCGTGGTCTCATTTGGTGTCTGCACCC 79
QY 1673 AGAAGCAGCCCATCTACATCGTCATGGAGCTTTGTGCAGGGGGCGGACTTCTTGACCTTCC 1732
Db 80 AGAAGCAGCCCATCTACATCGTCATGGAGCTTTGTGCAGGGGGCGGACTTCTTGACCTTCC 139
QY 1733 TCCGACGAGGGGGCGCGCTCGGGTGAAGACTCTGTGCAGATGGTGGGGGATGCAG 1792
Db 140 TCCGACGAGGGGGCGCGCTCGGGTGAAGACTCTGTGCAGATGGTGGGGGATGCAG 199
QY 1793 CTGCTGGCATGGAGTACCTGGAGAGCAAGTGTGATCCACCGGACCTGGCTGTCCGA 1852
Db 200 CTGCTGGCATGGAGTACCTGGAGAGCAAGTGTGATCCACCGGACCTGGCTGTCCGA 259
QY 1853 ACTGCTGTGTGACAGAGAAATGTCTCTGAAG-ATCAGTGACTTTT-GGGATGTCCGAGA 1910
Db 260 ACTGCTGTGTGACAGAGAAATGTCTCTGAAGATCAGTGACTTTTGGGATGTCCGAGA 319
QY 1911 GGAAGCC---GATGGGTCTATGACGCTCAGGGGCGCTCAG 1949
Db 320 GGAAGCCGATTTGGGGTCTATGACGCTCAGGGGCGCTCAG 361

RESULT 7

US-10-121-925-5
; Sequence 5, Application US/10121925
; Publication No. US20030104505A1
; GENERAL INFORMATION:
; APPLICANT: ROBISON, KEITH E.

; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE AND
; TITLE OF INVENTION: PHOSPHATASE HOMOLOGUES AND USES THEREFOR

; FILE REFERENCE: MNI-090
; CURRENT APPLICATION NUMBER: US/10/121.925
; CURRENT FILING DATE: 2002-04-12
; PRIOR APPLICATION NUMBER: US/09/948,802
; PRIOR FILING DATE: 2001-09-07
; PRIOR APPLICATION NUMBER: 09/387,212
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: All occurrences of n indicate any nucleotide

US-10-121-925-5
Query Match 13.1%; Score 296.2; DB 15; Length 361;
Best Local Similarity 97.4%; Pred. No. 2e-64;
Matches 333; Conservative 0; Mismatches 4; Indels 5; Gaps 3;
QY 1613 CGAGGATCCTGAACAGTACAGCCACCCCAACATCGTCTCTCATTTGGTGTCTGCACCC 1672
DB 20 CNAAGATCCTGAAGACAGTACAGCCACCCCAACATCGTCTCTCATTTGGTGTCTGCACCC 79
QY 1673 AGAAGACGCCATCTACATCGTCTATGAGAGCTTGTGACGGGGGGGACCTTCTGACCTTCC 1732
DB 80 AGAAGACGCCATCTACATCGTCTATGAGAGCTTGTGACGGGGGGGACCTTCTGACCTTCC 139
QY 1733 TCCGACGAGGGGGCCCGCTCGGGTGAAGACTTGTCTGACAGATGGTGGGGATGCAG 1792
DB 140 TCCGACGAGGGGGCCCGCTCGGGTGAAGACTTGTCTGACAGATGGTGGGGATGCAG 199
QY 1793 CTGCTGCGATGGAGTACTTGGAGAGCAAGTCTGCTGATCCACCGGACCTGGCTCGGA 1852
DB 200 CTGCTGCGATGGAGTACTTGGAGAGCAAGTCTGCTGATCCACCGGACCTGGCTCGGA 259
QY 1853 ACTGCTGCTGACAGAGCAAGTCTGCTGAAG-ATCAGTGACTTT-GGGATGCTCCGAGA 1910
DB 260 ACTGCTGCTGACAGAGCAAGTCTGCTGAAGATCAGTGACTTTGGGGATGCTCCGAGA 319
QY 1911 GGAAGCC---GATGGGCTTATGAGCCTCAGGGGGCCCTCAG 1949
DB 320 GGAAGCCGATTTGGGGCTTATGAGCCTCAGGGGGCCCTCAG 361

RESULT 8
US-10-280-576-19
; Sequence 19, Application US/10280576
; Publication No. US2004004405A1
; GENERAL INFORMATION:
; APPLICANT: Woloff, Matthew R.
; TITLE OF INVENTION: VASCULAR STENT OR GRAFT COATED OR IMPREGNATED WITH PROTEIN
; FILE REFERENCE: 09820.189
; CURRENT APPLICATION NUMBER: US/10/280,576
; CURRENT FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 60/343,732
; PRIOR FILING DATE: 2001-10-25
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 1779
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-10-280-576-19
Query Match 12.0%; Score 271.6; DB 18; Length 1779;
Best Local Similarity 57.0%; Pred. No. 4e-58;
Matches 518; Conservative 0; Mismatches 384; Indels 6; Gaps 1;
QY 1327 TACCGACTGGAAGGGAGGCTTTCCTAGCATTTCTTGTCTCATCGACCACCTACTGAGC 1386

RESULT 9

US-10-003-295-3
; Sequence 3, Application US/10003295
; Publication No. US20020168741A1
; GENERAL INFORMATION:
; APPLICANT: GAN, Weinui et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF

DB 844 TTCGGTTGAGGACCAACATTTGCAGCATCCAGAGCTGATCATCATGATATCATC 903
QY 1387 ACCCAGCAGCCCTCACCAGAGAGTGGTGTGTCTGTCTGCACAGGGTGTGCCCAAGGAC 1446
DB 904 TCGGAATTCAGTGCAGCCGTGAATCGGAGCCATATCTCCGACGCCCGTTTCCGGGAG 963
QY 1447 AGTGGTGTGAACCATAGGACCTGGTGTGTGGTGTGAGCAGATTGGACGGGGAACTTT 1506
DB 964 CGCTGGGAGCTGAGCAACGATGATGTGTACTTCTGGAGAGGATTTGTTCGGGAACTTT 1023
QY 1507 GCGAAGTGTTCAGCGGACCGCTGCAGCGCAACACCTGTGTGGTGTGAAGTCTTGT 1566
DB 1024 GGGGATGTCTACAAGGCCAACTGAAGTCCCAAACTGGATGTGGTGTCTCAAAACCTGT 1083
QY 1567 CGAGAGACGCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGCAGGATCTCTGAAG 1626
DB 1084 CGAATGACCTGCCCGACGACAGAGCGTAATTTCTACAGGAAGGCCGATCTCTCAAG 1143
QY 1627 CAGTACAGCACCCCAACATCGTGTCTCATTTGGTGTGTGACACCTTCTCCGACGGAGG 1686
DB 1144 CAATACGATCATCAAAATATCGTAAATTTGATTTGGCATTTGTGTGAGAGCAGCCCATC 1203
QY 1687 TACATCGTATGAGGCTTGTGACGGGGGGGACCTTCTGACCTTCTCCGACGGAGG 1746
DB 1204 ATGATTTGTATGGAATTTGGTGTCTCGGTGTTCGCTTTTAACTTATTACGCAAGAACTCC 1263
QY 1747 GCCCGCTCGGGTGAAGACTCTGCTGCAGATGGTGGGGGATGCAGTGTGTCATGGAG 1806
DB 1264 ATGGGCTCACCACTGCCCAACAAATGGGCATGTGCAGAGATGGCGGCGAGCATGCGA 1323
QY 1807 TACCTCGAGAGCAAGTGTGTCATCCACGGGACCTGGTGTCTCGGAACTGCTGTGGTGA 1866
DB 1324 TATCTGGAGTCCAAAAAATGCAATTCATCGCATCTGGCGCGCTAATTTGCTCGTTGAC 1383
QY 1867 GAGAAATGTCTGGAAGATCAGTGACTTTGGGATGTCCCGAGAGGAGCCGATGGGTC 1926
DB 1384 TTGGAGCAGATGTGAAGATCTCCGATTTGGGAATGTCTCGCGAGGAA-----GAGGAA 1437
QY 1927 TATGAGCCTCAGGGGGCTCAGCAAGTCCCGTGAAGTGGACCGCACCTGAGGCCCTT 1986
DB 1438 TATATAGTTTCCGATGGCATGAACAAATACCTGTGAGTGGACAGCTCCCGAGGCCCTG 1497
QY 1987 AACTACGGCCGTACTCTCCGAAAGCAGTGTGGAGCTTTGGCATTTTGGCTCTGGGAG 2046
DB 1498 AATTCGGCAAGTACACTTCTGTTGTCGATGTGTGCTCTATGGCATACTGATGTGGAG 1557
QY 2047 ACCTTCAGCTGGGGCCCTCCCTTATCCCACTCAGCAATCAGCAGACCGGAGTTT 2106
DB 1558 ATCTTCTCAAGGGCGACACACCTTACTCCGGCATGACCAACTCCAGAGCCAGAGAGCGC 1617
QY 2107 GTGGAGAAGGGGGCGCTGCTGCCCTGCCAGAGCTGTGTCTCTGATGCGGTGTTCCAGGCTC 2166
DB 1618 ATCGATACGGGATATCGTATGCCAAGCAGCAGCAGCAGCAGGAGATGTACCGACTG 1677
QY 2167 ATGAGCAGTGTGGCCCTTATGAGCCTGGGCGAGCGGCCAGCTTTCAGCACCATTACCCAG 2226
DB 1678 ATGCTCCAGTGTGGGCGAGCGCGAATCCCGACCGCATTTTCGATGAGATCTACAAT 1737
QY 2227 GAGCTGCA 2234
DB 1738 GTGGTGA 1745

RESULT 9

US-10-003-295-3
; Sequence 3, Application US/10003295
; Publication No. US20020168741A1
; GENERAL INFORMATION:
; APPLICANT: GAN, Weinui et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF

```
; FILE REFERENCE: CL001183DIV
; CURRENT APPLICATION NUMBER: US/10/003,295
; CURRENT FILING DATE: 2001-12-06
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 15297
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-003-295-3

Query Match      10.1%; Score 227.2; DB 13; Length 15297;
Best Local Similarity 71.1%; Pred. No. 7.9e-47;
Matches 394; Conservative 0; Mismatches 8; Indels 152; Gaps 1;

QY 1 ATGGGCTTCTCTCTGAGCTGTGACGCCGCCACGGCCACGGGTCTCTGACGAAATGCAG 60
Db 2563 ATGGGCTTCTCTCTGAGCTGTGACGCCGCCACGGCCACGGGTCTCTGACGAAATGCAG 2622

QY 61 GAGCCGAGTTCGTCTACTGAGGGCATGAGAAATGGATGGCCACGGGTCAAGAGT 120
Db 2623 GAGCCGAGTTCGTCTACTGAGGGCATGAGAAATGGATGGCCACGGGTCAAGAGT 2682

QY 121 GACAGGAGTATGACGAGTCTTACACATGTCCCTGACGACAGTGGGGCCAGAGC 180
Db 2683 GACAGGAGTATGACGAGTCTTACACATGTCCCTGACGACAGTGGGGCCAGAGC 2742

QY 181 CGGGCCATCAGCCCTGACAGCCCATCAGTC----- 211
Db 2743 CGGGCCATCAGCCCTGACAGCCCATCAGTCAGTGGGTGGGT 2802

QY 212 ----- 211
Db 2803 GCTGGCGTATCTGCCCTTCTCCTTCTCTCTGGGGCCCTCTGAGGAGTCTGAGAT 2862

QY 212 ----- 211
Db 2863 CTGGCAGGCAATGCTTGGAGCCATTGTGCCCCCTCCCTGCCCTCCCATCTGTGCTG 2922

QY 212 ---AGTCCTGGGCTGAGATCACCAGCCAACTGAGGCGCTTGAGCCGCTTCTGCGGCAGC 268
Db 2923 TATAGTCTGGGCTGAGATCACCAGCCAACTGAGGCGCTTGAGCCGCTTCTGCGGCAGC 2982

QY 269 ACCGAGGATCTGAATCTAGGCGCCCTGAGCAAGCTGAGCTGTCTATCCGGGAACGCG 328
Db 2983 ACCGAGGATCTGAATCTAGGCGCCCTGAGCAAGCTGAGCTGTCTATCCGGGAACGCG 3042

QY 329 AGCAGTTCGCAAGACCTACAGCGAGCTGGCGAGCTGCGAGGAGCTCACCAGA 388
Db 3043 AGCAGTTCGCAAGACCTACAGCGAGCTGGCGAGCTGCGAGGAGCTCACCAGA 3102

QY 389 CCCACAGCCAGGAC 402
Db 3103 TGAGCGGCGAGCAC 3116

RESULT 11
US-10-101-510-525
; Sequence 525, Application US/10101510
; Publication No. US20030148295A1
; GENERAL INFORMATION:
; APPLICANT: WAN, JACKSON
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
; FILE REFERENCE: 15117.0012
; CURRENT APPLICATION NUMBER: US/10/101,510
; CURRENT FILING DATE: 2002-03-20
; PRIOR APPLICATION NUMBER: 60/276,947
; PRIOR FILING DATE: 2001-03-20
; NUMBER OF SEQ ID NOS: 805
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 525
; LENGTH: 3875
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-101-510-525

Query Match      8.9%; Score 201.2; DB 15; Length 3875;
Best Local Similarity 54.9%; Pred. No. 2.2e-40;
Matches 423; Conservative 0; Mismatches 338; Indels 9; Gaps 1;
```

1451 GGGTGTGAACCATGAGGACCTGGTGTGGTGAGCAGATTGGACGGGGAACTTTGGCG 1510
1969 GGGAGCTTGATCCAGCGTGGCTGATGGTGACACTGTCTATGAGGAAGAGAGATTTGGGG 2028
1511 AAGTGTTCAGCGGACGCTCGAGCC-----GACACACCCCTGGTGGCGTGAAGT 1561
2029 AAGTGTATCAGGAGACCTGAGGCTCCAGCCAGGACTGCAAGACTGTGGCCATTAAGA 2088
1562 CTTGTGAGAGAGCTCCCACTGACCTCAAGCCAAAGTTTCTACAGAAAGCGAGGATCC 1621
2089 CCTTAAAGACACATCCAGGTGGCCAGTGGTGAACCTTCTTCGAGAGCAACTATCA 2148
1622 TGAAGCAGTACAGCACCACCAACATCGTGGCTCTATGCTGTCTGACCCAGCAGGAGC 1681
2149 TGGGCCAGTTTAGCCACCCCATATCTGCACTTGGAAAGCGTGTCCAAAGCGAAGC 2208
1682 CCATCTACATCTGTCATGAGGCTGTGACGGGGGCGACTTCTTGACCTTCTCGCAGCG 1741
2209 CGATCATGATCATCAGAAATTTATGAGAAATGGAGCCCTGGATGCCCTTCTGAGGAGC 2268
1742 AGGGGGCCGCTCGGGTGAAGACTCTGCTGCAGATGGTGGGGGATGCACTGCTGGCA 1801
2269 GGGAGGACCACTGGTCCCTGGGCGCTAGTGGCCATGCTGCAGGGCATAGCATCTGGCA 2328
1802 TGAAGTACCTGGAGAGCAAGTGTGCACTCACCGGACCTGGCTCGGAACTGCGCTGG 1861
2329 TGAATACCTCAGTAATCACAATTTATGTCCACCGGACCTGGCTGCCAGAAACATCTTG 2388
1862 TGACAGAGAAATGTCCTCAAGATCAGTCACTTGGGATGTCCTGAGAGGAGCGGATG 1921
2389 TGAATCAAAACCTGTGTGCAAGGTCTGACCTTGGCCCTGACTCGCCTCCTGGATGACT 2448
1922 GGGTCTATGAGCCTCAGGGGGGCTCAGACAAGTCCCGTGAAGTGGACCGCACCTGAGG 1981
2449 TTGATGSCACATACGAACCCAGGAGAAAGATCCCTATCCGTGGACACCCCTGAAG 2508
1982 CCCTTAACAGGCGCTACTCTCCGAAAGCAGAGTGGAGCTTTGGCATCTTGGCTCT 2041
2509 CCATGCCCCATCGATCTTCCACACAGCCAGCATGTGTGGAGCTTTGGGATTTGTATG 2568
2042 GGGAGACCTTCAGCTGGGGGCTCCCGCTATCCCACTCAGCAATCAGCAGACAGGG 2101
2569 GGGAGGTGCTGAGCTTTGGGGACAGCCCTTATGGGAGATGAGCAATCAGAGGTTATGA 2628
2102 AGTTTGTGGAAGAGGGGGCGCTGCTGCTGCCCCAGAGCTGTGTCTGTATGCCGTGTCA 2161
2629 AGAGCATTTAGGATGGGTACCGGTTGGCCCTCTCTGTGGACTGCCCTGCCCTCTGTATG 2688
2162 GGCTCATGAGCAGTGTGCTGGCCCTATGAGCCTGGGACGGGCCAGCTTC 2211
2689 AGCTCATGAAGAACTGCTGGGCATATGACCGTGGCCGCGCCGACACTTC 2738

RESULT 12

US-10-384-339C-1
; Sequence 1, Application US/10384339C
; Publication No. US2004017503A1
; GENERAL INFORMATION:
; APPLICANT: Kreutzer, Roland
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR INHIBITING EXPRESSION OF A TARGET GENE
; FILE REFERENCE: 2020/2002
; CURRENT APPLICATION NUMBER: US/10/384,339C
; CURRENT FILING DATE: 2003-03-07
; PRIOR FILING DATE: 2002-01-09
; PRIOR FILING DATE: 2002-01-09
; PRIOR FILING DATE: 2002-01-09
; PRIOR FILING DATE: 2001-01-09
; PRIOR FILING DATE: 2001-10-26
; PRIOR FILING DATE: 2001-11-29
; PRIOR FILING DATE: 2001-12-07

NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 2955
; TYPE: DNA
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; TITLE: Bph A1
; PATENT DOCUMENT NUMBER: NM00532
US-10-384-339C-1

Query Match 8.8%; Score 198; DB 19; Length 2955;
Best Local Similarity 54.7%; Pred. No. 1.4e-39;
Matches 421; Conservative 0; Mismatches 340; Indels 9; Gaps 1;

QY 1451 GGGTGTGAACCATGAGGACCTGGTGTGGTGAGCAGATTGGACGGGGAACTTTGGCG 1510
DB 1874 GGGAGCTTGATCCAGCGTGGCTGATGGTGACACTGTCTATGAGGAAGAGAGATTTGGGG 1933
QY 1511 AAGTGTTCAGCGGACGCTCGAGCC-----GACACACCCCTGGTGGCGTGAAGT 1561
DB 1934 AAGTGTATCAGGAGACCTCAGGCTCCAGCAGGACTGCAAGACTGTGGCCATTAAGA 1993
QY 1562 CTTGTGAGAGAGCTCCCACTGACCTCAAGCCAAAGTTTCTACAGAAAGCGAGGATCC 1621
DB 1994 CCTTAAAGACACATCCCGAGGTGGCCAGTGGTGAACCTTCTTCGAGAGGCAACTATCA 2053
QY 1622 TGAAGCAGTACAGCACCACCAACATCGTGGCTCTCATTTGGTGTCTGCACCAGAAAGCAGC 1681
DB 2054 TGGGCCAGTTTAGCCACCCGCATATTTCTGCACTGGAAGGCGTCTGACAAAGGAAAGC 2113
QY 1682 CCATCTACATCTGTCATGAGCTGTGCAAGGGGGGCACTTCTTGAACCTTCTCGCAGCG 1741
DB 2114 CGATCATGATCATCAGAAATTTATGGAATATGAGCCCTGGATGCTTCTGAGGAGC 2173
QY 1742 AGGGGCCCGCTGCGGTGAAGACTCTGCTGCAGATGGTGGGGGATGCACTGCTGGCA 1801
DB 2174 GGGAGACAGCTGCTGCTGAGCACTAGTGGCCATGCTGAGGGCATAGCATCTGGCA 2233
QY 1802 TGAGTATCTGAGAGCAAGTGTGCTCCACCGGACCTGGCTGTCTGGAACCTGCTGG 1861
DB 2234 TGAATCTACCTCAGTAATCAATTTATGTCACCGGACCTGGCTGCCAGAAACATCTGG 2293
QY 1862 TGACAGAGAAATGTCTGGAAGATCAGTCACTTTGGGATGTCCGAGAGAAAGCCGATG 1921
DB 2294 TGAATCAAAACCTGTGCTCAAGGTGTCTGACTTTGGCCCTGACTCGCCTCTGGATGACT 2353
QY 1922 GGGTCTATGAGCCTCAGGGGGCTCAGACAAAGTCCCGTGAAGTGGACCGCACCTGAGG 1981
DB 2354 TTGATGGCACAATACGAACCCAGGGAGAAAGATCCCTATTCCTTGGACAGCCCTGAAG 2413
QY 1982 CCCTTAACCTACGGCCGCTACTCTCCGAAAGCAGCGTGTGGAGCTTTGGCATCTTGGCTCT 2041
DB 2414 CCATTGCCCATCGGATCTTCCACAGCAGCGATGTGTGGAGCTTTGGATTTGTATGT 2473
QY 2042 GGGAGACCTTCAGCCTGGGGGCTCCCTATCCCAACCTCAGCAATCAGCAGACAGGG 2101
DB 2474 GGGAGGTGCTGAGCTTTGGGACAAAGCCTTATGGGAGATGAGCAATCAGAGGTTATGA 2533
QY 2102 AGTTTGTGAGAGGGGGCGCTGCTGCCCTGCCCCAGAGCTGTGTCTGATGCCGTGTCA 2161
DB 2534 AGAGCATTTAGGAGTGGGTATCCCGGTTGCCCTCTCTGTGAGTGGCTTGGCCCTCTGTATG 2593
QY 2162 GGCTCATGAGCAGTGTCTGGCCCTATGAGCTGGGAGCGGGCCAGCTTC 2211
DB 2594 AGCTCATGAAGAACTGCTGGGCATATGACCGTGGCCGCGCCGACACTTC 2643

RESULT 13

US-09-967-768A-144
; Sequence 144, Application US/09967768A
; Patent No. US20020150877A1
; GENERAL INFORMATION:


```

; APPLICANT: Augustus, Meena
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE OF INVENTION: Sets
; FILE REFERENCE: 689290-72
; CURRENT APPLICATION NUMBER: US/09/967,768A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/60/236,109
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,034
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,111
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 325
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 144
; LENGTH: 3370
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-967-768A-144

```

Query Match	8.8%	Score 198;	DB 9;	Length 3370;
Best Local Similarity	54.7%;	Pred. No. 1.4e-39;		
Matches 421;	Conservative 0;	Mismatches 340;	Indels 9;	Gaps 1;
QY	1451	GGGTCTCAACCATGAGCACTGGTGTGGGTGAGCAGATTGGACGGGGAACTTTGGCG	1510	
Db	1967	GGGAGCTTGATCCAGCGTGGCTGATGGTGACACTGTCTATAGGAGAAGAGAGTTGGG	2056	
QY	1511	AAGTGTTCAGCGGACGCTTCGAGCC-----GACAACACCCCTGTGTGGCGTGAAGT	1561	
Db	2027	AAGTGTATCGAGGGACCTCAGGCTCCCAAGCAGAGCTGCAAGACTGTGGCCATTAGA	2086	
QY	1562	CTTGTGAGAGACGCTCCCACTGACCTCAAGGCCAAGTTTCTACAGGAAGCAGAGTCC	1621	
Db	2087	CTTTAAAGACACATCCCAAGTGGCAGTGGTGGAACTTCCTTCGAGAGGCAACTATCA	2146	
QY	1622	TGAAGCAGTACAGCCACCCCAACATCGTCGCTCTCATTTGGTGTCTGACCCAGAAAGCAGC	1681	
Db	2147	TGGCCAGTTTAGCCACCCGCCATATTCTGCATCTGGAAGGGCGTGGTCAAAAGCGAAAGC	2206	
QY	1682	CCATCTACATGTCATGGAGCTTTGTGCAGGGGGGGGACTTCTTGACCTTCTCTCGCACGG	1741	
Db	2207	CGATCATGATCATCACAGAATTTATGGAAATGCAGGCCCTGGATGCTCTCTGAGGGAGC	2266	
QY	1742	AGGGGGCCCTCGCGGTGAAGACTCTGCTGCAGATGGTGGGGATGCACTGCTGGCA	1801	
Db	2267	GGAGGACAGCTGTGTCCTGGGCACTAGTGGCCATGCTGCAGGGGCATATGATCTGGCA	2326	
QY	1802	TGGAGTACCTGGAGAGCAAGTGTGCATCCACGGGACCTGGCTGCTCGGAACCTGCTCG	1861	
Db	2327	TGAACCTACCTCAGTAATCACAATTTATGTCACCGGACCTGGCTGCCAGAAACATCTGG	2386	
QY	1862	TGACAGAGAGATGTCCTGAAGATCAGTGACTTTTGGGATGTCCTCGAGAGAAAGCCGATG	1921	
Db	2387	TGAATCAAAACCTGTGCTCAAGAGTGTCTGACTTTTGGCTGACTTCGCTCTGGATGACT	2446	
QY	1922	GGGTCTATGCAGCCTCAGGGGGCCTCAGACAGTCCCCGTGAAGTGACCGCACTTGAGG	1981	
Db	2447	TTGATGGCACAATACGNAACCCAGGAGGAAGATCCCTATCCGTTGGACAGCCCTTGAAG	2506	
QY	1982	CCCTTAACTAGGCGCGCTACTCCTCCGAAGCGACGTGTGGAGCTTTGGCATCTTGCTCT	2041	
Db	2507	CCATTGCCCATCGGATCTTACCAACAGCCGATGTGTGGAGCTTTGGATTGTGATGT	2566	
QY	2042	GGGAGACCTTCAGCCTGGGGCCCTCCCTATCCCACTCAGAAATCAGACAGACCGGG	2101	
Db	2567	GGGAGTGTGAGCTTTGGGGACAAGCCCTTATGGGGAGATGAGCAATCAGAGGTTATGA	2626	
QY	2102	AGTTGTGGAGAAGGGGGCGGTCTGGCCCTGCCACAGAGCTGTCTCTGATGCCGTTCAC	2161	
Db	2627	AGAGCATTGAGGATGGGTACCGGTTGCCCTCTCTGTGGACTGCCCTCTGCTGTATG	2686	
QY	2162	GGCTCATGGACAGTGTGGGGCCTATGAGCCTGGGACAGCGGCCCAAGCTTC	2211	

```

Db      2687 AGCTCATGAAGAACTCTGGCATGATGACCGTCCCGCGCCACACTTC 2713
|||
RESULT 14
US-10-354-358-101
; Sequence 101, Application US/10354358
; Publication No. US20030157082A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc
; APPLICANT: Hunter, John Joseph
; APPLICANT: MacBeth, Kyle J.
; APPLICANT: Tsai, Pong-Ying
; APPLICANT: Lesoon, Andrea
; APPLICANT: Lightcap, Eric S.
; APPLICANT: Williamson, Mark
; APPLICANT: Rudolph-Owen, Laura A.
; TITLE OF INVENTION: CANDORS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: Cancers Using 140, 1470, 1686, 2089, 2427, 3703
; TITLE OF INVENTION: 7181, 7660, 23641, 69583, 49863, 8897, 1682, 13
; TITLE OF INVENTION: 3703, 14171, 10359, 1660, 1450, 18894, 2088, 3
; TITLE OF INVENTION: 9252, 9389, 1542, 85269, 10297, 1584, 9525, 14
; TITLE OF INVENTION: 8990, 2100, 9288, 64698, 10480, 20893, 33230,
; TITLE OF INVENTION: 16334, 68862, 9011, 14031, 6178, 21225, 1420,
; TITLE OF INVENTION: 2150, 26583, 2784, 8941, 9811, 27444, 50566 OR
; FILE REFERENCE: MP102-020P1R0NNM1
; CURRENT APPLICATION NUMBER: US/10/354,358
; CURRENT FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: US 60/353,600
; PRIOR FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: US 60/364,517
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/371,075
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: US 60/371,507
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: US 60/372,984
; PRIOR FILING DATE: 2002-04-16
; PRIOR APPLICATION NUMBER: US 60/374,194
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/382,995
; PRIOR FILING DATE: 2002-05-24
; PRIOR APPLICATION NUMBER: US 60/385,023
; PRIOR FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: US 60/388,853
; PRIOR FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: US 60/389,395
; PRIOR FILING DATE: 2002-06-17
; Remaining Prior Application data removed - See File Wrapper or PALM
; NUMBER OF SEQ ID NOS: 122
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 101
; LENGTH: 3370
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (94)...(3048)
; US-10-354-358-101

```

	Query Match	8.8%	Score 198;	DB 16;	Length 3370;
	Best Local Similarity	54.7%;	Pred. No. 1.4e-39;		
	Matches 421;	Conservative 0;	Mismatches 340;	Indels 9;	Gaps 1;
Qy	1451	GGTGCTGACCATGAGGACCTGGTGTGGTGAGCAGATTGACCGGGGAACCTTTCGCG			
Db	1967	GGGAGCTTGATCCAGCGTGCTGATGTGGACACTGTCTAGGAGAAGGAGAGTTTCGGG			
Qy	1511	AAGTGTTCAGCGGACCGCTTCGAGCC-----GACAAACCCCTGGTGGCGGTGAAGT			
Db	2027	AAGTGTATCGAGGACCCCTCAGGCTCCCGAGCCAGACTGCAAGACTGTGGCCATTAAAG			
Qy	1562	CTTGTCGAGAGAGCGTCCCACTCGACTCAAGGCCAAGTTTCTACAGGAAGCCGAGGATCC			


```
Db 2087 CCTTAAAGACACATCCCAAGGTGGCCAGTGGTGGAACTTCTTTCGAGAGCAACTATCA 2146
Qy 1622 TGAAGCAGTAGACACCCCAACATCGTGGCTCTCATTTGGTGTCTGCACCCAGAAAGCAGC 1681
Db 2147 TGGGCCAGTTTAGCCACCCGCATATTCTGCATCTGGAAGCGTCTGCACAAAGCGAAAGC 2206
Qy 1682 CCATCTACATCGTCATGGAGCTTGTGACGGGGGCGACTTCTCGAACCTTCTCCCGACGG 1741
Db 2207 CGATCATGATCATACAGAAATTTATGAGAATTCAGCCCTGGATGCCCTTCTGAGGAGC 2266
Qy 1742 AGGGGGCCCGCTCGCGGTGAAGACTCTGCTGCAGATGTGGGGATGCAGCTGCTGGCA 1801
Db 2267 GGAAGGACAGCTGTGCTTGGGAGCTAGTGGCCATGCTGCAGGGCATAGCATCTGGCA 2326
Qy 1802 TGGAGTACCTGGAGAGCAAGTGTGATCCACCGGACCTGGCTGCTCGGAATCTGCTGG 1861
Db 2327 TGAATACCTCAGTAATCAATTAATGTCTCACCGGACCTGGCTGCCAGAAACATCTGG 2386
Qy 1862 TGACAGAGAAGATGCTCTGAAATCAGTCACTTTGGGATGTCCCGAGAGAAAGCGATG 1921
Db 2387 TGAATCAAAAACCTGTGCTCAAGGTGTCTGACTTTGGCCTGACTCGCCTCTCGATGACT 2446
Qy 1922 GGGTCTATGACGCTCAGGGGGCTCAGACAAGTCCCGTGAAGTGGACCGCACCTGAGG 1981
Db 2447 TTGATGGCACAATAGAAACCCAGGGAGAAAGATCCCTATCCGTTGGACAGCCCTGAAG 2506
Qy 1982 CCCTTAATACGCGCGTACTCTCCGAAAGCAGCTGTGGAGCTTTGGCATCTTGCTCT 2041
Db 2507 CCATTGCCATCGATCTTCCACACAGCAGCAGATGTGTGGAGCTTTGGGATTTGATGT 2566
Qy 2042 GGAAGACTTTCAGCCTGGGGGCTCCCTATCCCAACCTCAGCAATCAGACACAGCGG 2101
Db 2567 GGGAGGTGTGAGCTTTGGGGACAAGCCTTATGGGGAGATGAGCAATCAGGAGTTATGA 2626
Qy 2102 AGTTTGGAGAGGGGGCGCTGCTCCCTGCGCAGAGCTGTCTGATGCGCTGTTCA 2161
Db 2627 AGAGCATTGAGGATGGGTACCGGTGCCCCCTCTCTGGACTGCCCTTGCCCCCTGTATG 2686
Qy 2162 GGCTCATGAGCAGTGTGGGCTATGAGCTGGGAGCGCGCCAGCTTC 2211
Db 2687 AGCTCATGAGAACTGCTGGGCATATGACCGTGGCCCGCCGACACTTC 2736
```

RESULT 15

```
US-10-210-120-19
; Sequence 19, Application US/10210120
; Publication No. US2003017576A1
; GENERAL INFORMATION:
; APPLICANT: Chinnaiyan, Arul M.
; APPLICANT: Sreekumar, Arun
; TITLE OF INVENTION: Expression Profile of Prostate Cancer
; FILE REFERENCE: UM-07221
; CURRENT APPLICATION NUMBER: US/10/210,120
; CURRENT FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: US 60/309,581
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: US 60/334,468
; PRIOR FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 19
; LENGTH: 3370
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-210-120-19
```

```
Query Match 8.8%; Score 198; DB 16; Length 3370;
Best Local Similarity 54.7%; Pred. No. 1.4e-39;
Matches 421; Conservative 0; Mismatches 340; Indels 9; Gaps 1;
Qy 1451 GGGTGTGAACCATGAGGACCTGGTGTGGGTGAGCAGATTGGACCGGGGAACCTTTGGCG 1510
```

Search completed: August 10, 2005, 10:13:16
Job time : 2017.27 secs

```
Db 1967 GGAGCTTGTATCCAGCTGGCTGATGGTGGACACTGTCTATAGAGAAGGAGAGTTTGGGG 2026
Qy 1511 AAGTGTTCAGCGGACCCCTGCCAGCC-----GACAAACACCCCTGGTGGCGGTGAAGT 1561
Db 2027 AAGTGTATCGAGGGACCCCTCAGGCTCCCGACCGAGGACTGCAAGACTGTGGCCATTAGA 2086
Qy 1562 CTTGTGAGAGAGCGTCCACACCTGACTCAAGGCCAAGTTTCTACAGGAAGCAGGATCC 1621
Db 2087 CTTAAAGACACATCCCCAGGTGGCCAGTGGTGAACCTTCTTCGAGAGGCAACTATCA 2146
Qy 1622 TGAAGCAGTACAGCCACCCACATCGTGGTCTCATTTGGTGTCTGCACCCAGAGCAGC 1681
Db 2147 TGGGCGAGTTTAGCCACCCGCATATTTCTGCATCTGGAAGCGCTGTCACAAAGCGAAGC 2206
Qy 1682 CCATCTACATCTGTCATGAGACTTGTGCAGGGGGCGACTTCTCTGACCTTCTCCGACCG 1741
Db 2207 CGATCATGATCATACAGAAATTTATGGAGATGACAGCCCTGGATGCTTCTCGAGGAGC 2266
Qy 1742 AGGGGCGCCGCTGCGGGTGAAGACTCTGCTGCAGATGTGTGGGGATGCAAGTGTGGCA 1801
Db 2267 GGGAGGACAGCTGGTCCCTGGGCGACTAGTGGCCATGCTGCAGGGCATAGCATCTGGCA 2326
Qy 1802 TGGAGTACCTGGAGAGCAAGTGTGCTCATCCACCGGACCTGGCTGCGAACTGCTCG 1861
Db 2327 TGAATACCTCAGTAATCAATTAATGTCCACCGGACCTGGCTGCCAGAAACATCTTGG 2386
Qy 1862 TGACAGAGAAGAAATGTCTTGAAGATCAGTGAATTTGGGATGTCCCGAGAGAAAGCCGATG 1921
Db 2387 TGAATCAAAAACCTGTGCTGCNAGGTGTCTGACTTTGGCCCTGACTCGCCTCTGGATGACT 2446
Qy 1922 GGGTCTATGACGCTCAGGGGGCTCAGACAAGTCCCGTGAAGTGGACCGCACCTGAGG 1981
Db 2447 TTGATGGCACAATACGAAACCCAGGGAGGAAAGATCCCTATCCGTTGGACAGCCCTGAAG 2506
Qy 1982 CCCTTAACCTACGGCCGCTACTCTCCGAAAGCAGCTGTGGAGCTTTGGCATCTTGTCT 2041
Db 2507 CCATTGCCCATCGGATCTTCCACACAGCAGCGATGTGTGGAGCTTTGGGATTTGATGT 2566
Qy 2042 GGAAGACTTTCAGCCTGGGGGCTCAGACAAGTCCCGTGAAGTGGACCGCACCTGAGG 2101
Db 2567 GGGAGGTGTGAGCTTTGGGGACAAGCCTTATGGGGAGATGAGCAATCAGGAGTTATGA 2626
Qy 2102 AGTTTGGAGAGGGGGCGCTGCTCCCTGCGCAGAGCTGTCTGATGCGCTGTTCA 2161
Db 2627 AGAGCATTGAGGATGGGTACCGGTGCCCCCTCTCTGGACTGCCCTTGCCCCCTGTATG 2686
Qy 2162 GGCTCATGAGCAGTGTGGGCTATGAGCTGGGAGCGCGCCAGCTTC 2211
Db 2687 AGCTCATGAGAACTGCTGGGCATATGACCGTGGCCCGCCGACACTTC 2736
```

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 9, 2005, 16:42:25 ; Search time 498.791 Seconds
(without alignments)
7400.775 Million cell updates/sec

Title: US-10-660-763-1_COPY_72_2327

Perfect score: 2256

Sequence: 1 atgggtctctctctgagct.....gcattccgaagcgccatcg 2256

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:*

1: /cgn2_6/ptodata/1/ina/5A COMB.seq.*

2: /cgn2_6/ptodata/1/ina/5B COMB.seq.*

3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*

4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*

5: /cgn2_6/ptodata/1/ina/PTUS COMB.seq.*

6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2256	100.0	2674	3	US-09-817-180-1
2	2256	100.0	2674	4	US-10-003-295-1
3	296.2	13.1	361	3	US-09-387-212-5
4	296.2	13.1	361	3	US-09-948-802-5
5	227.2	10.1	15297	3	US-09-817-180-3
6	227.2	10.1	15297	4	US-10-003-295-3
7	213	9.4	19152	4	US-09-949-016-12110
8	213	9.4	19153	4	US-09-949-016-15795
9	198	8.8	3370	4	US-09-814-915A-82
10	185.4	8.2	3921	4	US-09-949-016-628
11	185.4	8.2	3921	4	US-09-949-016-2120
12	174.6	7.7	3386	4	US-09-949-016-5662
13	174.6	7.7	3416	2	US-08-357-642A-2
14	174.6	7.7	3416	2	US-08-460-626-2
15	174.6	7.7	3416	4	US-09-016-434-1483
16	174.6	7.7	4089	4	US-09-300-958A-13
17	170.4	7.6	1611	1	US-07-820-011A-3
18	170.4	7.6	1611	4	US-09-860-473-3
19	170.4	7.6	1611	4	US-09-444-711A-1
20	170.4	7.6	1611	4	US-09-444-711A-3
21	170.4	7.6	1611	5	PCT-US93-00445-3
22	170.4	7.6	2455	4	US-09-949-016-4411
23	169.4	7.5	3623	1	US-08-306-691B-35
24	169.4	7.5	5434	4	US-09-949-016-927
25	169.4	7.5	5763	4	US-09-949-016-3759
26	169	7.5	3018	4	US-09-949-016-1097
27	169	7.5	3018	4	US-09-949-016-4749

28	169	7.5	4871	4	US-09-799-451-448	Sequence 448, Appl
29	168.2	7.5	2574	3	US-09-142-529-2	Sequence 2, Appli
30	168.2	7.5	2574	4	US-10-045-428A-2	Sequence 2, Appli
31	165.8	7.3	738	2	US-08-604-989A-8	Sequence 8, Appli
32	165.8	7.3	1398	2	US-08-604-989A-9	Sequence 9, Appli
33	165.8	7.3	1521	2	US-08-604-989A-10	Sequence 10, Appli
34	165.8	7.3	1713	3	US-09-741-154-1	Sequence 1, Appli
35	165.8	7.3	1942	2	US-08-604-989A-11	Sequence 11, Appli
36	165.8	7.3	2000	3	US-08-426-509A-1	Sequence 1, Appli
37	165.8	7.3	2000	4	US-08-232-545-1	Sequence 1, Appli
38	165.8	7.3	2000	5	PCT-US95-05008-1	Sequence 1, Appli
39	163.6	7.3	2449	4	US-09-949-016-1248	Sequence 1248, Ap
40	163.6	7.3	5993	3	US-09-383-630-1	Sequence 1, Appli
41	163.6	7.3	5993	3	US-09-383-630-2	Sequence 2, Appli
42	162.6	7.2	1467	4	US-09-579-182-2	Sequence 2, Appli
43	162.2	7.2	2440	1	US-08-160-861-2	Sequence 2, Appli
44	162.2	7.2	2442	1	US-08-542-363-3	Sequence 3, Appli
45	162.2	7.2	2442	3	US-09-100-089-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1

US-09-817-180-1

; Sequence 1, Application US/09817180

; Patent No. 6340584

; GENERAL INFORMATION:

; APPLICANT: GAN, Weiniu et al.

; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC

; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES

; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: CLO01183

; CURRENT APPLICATION NUMBER: US/09/817,180

; CURRENT FILING DATE: 2001-03-27

; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1

; LENGTH: 2674

; TYPE: DNA

; ORGANISM: Human

US-09-817-180-1

Query Match		100.0%;	Score 2256;	DB 3;	Length 2674;
Best Local Similarity		100.0%;	Pred. No. 0;		
Matches 2256;		Conservative	0;	Mismatches	0; Indels 0; Gaps 0;
Qy	1	ATGGGCTTCTTCTGAGCTGTGACGCGCCAGCGCCAGCGGCTCTGCGAGCAATCGAG	60		
Db	72	ATGGGCTTCTTCTGAGCTGTGACGCGCCAGCGGCTCTGCGAGCAATCGAG	131		
Qy	61	GAGGCGGAGTTCGCTCTACTGGAGGCGCATGAGAAAGTGGATGCCAGCGGCTCAAGAGT	120		
Db	132	GAGGCGGAGTTCGCTCTACTGGAGGCGCATGAGAAAGTGGATGCCAGCGGCTCAAGAGT	191		
Qy	121	GACAGGAGTATCAGAGCTGCTTACCAATCTCCCTGCAGACAGTGGGGGCGAGC	180		
Db	192	GACAGGAGTATCAGAGCTGCTTACCAATCTCCCTGCAGACAGTGGGGGCGAGC	251		
Qy	181	CGGGCCATCAGCCCTCAGACGCCCATCAGTCAGTCCTGGGCTGAGATCACCAGCAACT	240		
Db	252	CGGGCCATCAGCCCTCAGACGCCCATCAGTCAGTCCTGGGCTGAGATCACCAGCAACT	311		
Qy	241	GAGGGCTGAGCCGCTTGTGCGGAGCAGCAGAGGATCTGAATCTCAGGCGCCCTGAGC	300		
Db	312	GAGGGCTGAGCCGCTTGTGCGGAGCAGCAGAGGATCTGAATCTCAGGCGCCCTGAGC	371		
Qy	301	AAGCTGAGCTGTCTATCCGGGAAACGGGAGCAGCTTGCAGACCTTACAGCGAGCTGG	360		
Db	372	AAGCTGAGCTGTCTATCCGGGAAACGGGAGCAGCTTGCAGACCTTACAGCGAGCTGG	431		
Qy	361	CACAGCTGAGGAGGAGCTCACCAGACCCAGCCAGCATTGAGAGCTGAGAGC	420		

432 CAGCAGCTGCAGCAGGAGCTCACCAAGACCCACAGCCAGGACATTGAGAAAGCTGAAAGAGC 491
421 CAGTACCGAGCTCTGCGACGGGACAGTGCCCAAGCGCAAGCGCAAGTACACGAGGCGCCAGC 480
492 CAGTACCGAGCTCTGCGACGGGACAGTGCCCAAGCGCAAGCGCAAGTACACGAGGCGCCAGC 551
481 AAAGACAAGGACCGTGCACAAAGGCAAGGCAAGTATGTGGCGAGCGCTGTGGAAAGCTCTTTT 540
552 AAAGACAAGGACCGTGCACAAAGGCAAGGCAAGTATGTGGCGAGCGCTGTGGAAAGCTCTTTT 611
541 GCTCACCAAAACCGCTATGTGTGGGCGTGGGCGTGGGCGTGGGCGTGGGCGTGGGCGTGGGCG 600
612 GCTCACCAAAACCGCTATGTGTGGGCGTGGGCGTGGGCGTGGGCGTGGGCGTGGGCGTGGGCG 671
601 CACAGCTCTCTGCTGCGCGGCTGCTGCGGCTCACTGCAGGACCTGCAGGAGGATGGCT 660
672 CACAGCTCTCTGCTGCGCGGCTGCTGCGGCTCACTGCAGGACCTGCAGGAGGATGGCT 731
661 TGCATCTGAAGGAGATCTTGCAGGAATACCTGGAGATTAGCAGCTGTGGAGGATGAG 720
732 TGCATCTGAAGGAGATCTTGCAGGAATACCTGGAGATTAGCAGCTGTGGAGGATGAG 791
721 GTGTGCGCATTCACCGGAGATGGCTGCAGCTGCTGCCCGCATCCAGCTCAGAGCTGAG 780
792 GTGTGCGCATTCACCGGAGATGGCTGCAGCTGCTGCCCGCATCCAGCTCAGAGCTGAG 851
781 TACCAAGGCTTCTTGCACAGATATGGGTCCGCACTGACGTCCCAACCTGTGTGTCAGTTC 840
852 TACCAAGGCTTCTTGCACAGATATGGGTCCGCACTGACGTCCCAACCTGTGTGTCAGTTC 911
841 GATGAGTCACTGCTTGAAGGAGTGAACCGTGGAGCTTGGAGCTTGGAGCTTGGAGCTTGGAG 900
912 GATGAGTCACTGCTTGAAGGAGTGAACCGTGGAGCTTGGAGCTTGGAGCTTGGAGCTTGGAG 971
901 CTGACTGTGGAGAGCTGCAGCACACGCTGACCTCAGTGCAGATGAGTGGCTGTGGCC 960
972 CTGACTGTGGAGAGCTGCAGCACACGCTGACCTCAGTGCAGATGAGTGGCTGTGGCC 1031
961 ACCGAGATGGTTCAGCGCGCAGAGATGTTAGCAGCTGCAACAGGAGCTCCGGAAT 1020
1032 ACCGAGATGGTTCAGCGCGCAGAGATGTTAGCAGCTGCAACAGGAGCTCCGGAAT 1091
1021 GAAGAGGAGAACACCCACCCCGGAGCGGCTGAGCTGTGGCAAGAGGCAAGTGTCTG 1080
1092 GAAGAGGAGAACACCCACCCCGGAGCGGCTGAGCTGTGGCAAGAGGCAAGTGTCTG 1151
1081 CAAGAAGCACTGCAGGGGCTGCAGTACGCTGTGCAAGGCAAGCTGCAGGCGCCAG 1140
1152 CAAGAAGCACTGCAGGGGCTGCAGTACGCTGTGCAAGGCAAGCTGCAGGCGCCAG 1211
1141 CAGGAGTTCCTGCAGACCAAGCTGGAGCACCTGGGCGCGGCGAGCGCGCTGTGCTG 1200
1212 CAGGAGTTCCTGCAGACCAAGCTGGAGCACCTGGGCGCGGCGAGCGCGCTGTGCTG 1271
1201 TCTCTGCAGGATGACCGGCACTCCACGCTGCTCTGGAGCAGGACGAGAGGGGGGAAGG 1260
1272 TCTCTGCAGGATGACCGGCACTCCACGCTGCTCTGGAGCAGGACGAGAGGGGGGAAGG 1331
1261 ACACCCAGCTGGAGATCTTAAAGGACCACTCTCAGGAATCTTCGCGCCCAAGTCTTCG 1320
1332 ACACCCAGCTGGAGATCTTAAAGGACCACTCTCAGGAATCTTCGCGCCCAAGTCTTCG 1391
1321 AACCTGTACCGACTGGAGGGGAAGGCTTCTAGCATTCTCTTGTCTCATCGACCACTTA 1380
1392 AACCTGTACCGACTGGAGGGGAAGGCTTCTAGCATTCTCTTGTCTCATCGACCACTTA 1451
1381 CTGAGCACCCAGAGCCCTTCAACGAAGAGTGTGTGCTGCTGCAGAGGCTGTGCC 1440
1452 CTGAGCACCCAGAGCCCTTCAACGAAGAGTGTGTGCTGCTGCAGAGGCTGTGCC 1511
1441 AAGGACAAGTGGTCTGAACCAATGAGGACCTGGTGTGGGTGAGCAGATTGGACGGGG 1500
1512 AAGGACAAGTGGTCTGAACCAATGAGGACCTGGTGTGGGTGAGCAGATTGGACGGGG 1571

1501 AACTTTGGCGAAGTGTTCAGCGGACGCTCGGAGCCGACACACCTGTGTGGCGGTGAAG 1560
1572 AACTTTGGCGAAGTGTTCAGCGGACGCTCGGAGCCGACACACCTGTGTGGCGGTGAAG 1631
1561 TCTTGTGAGAGAGCGCTCCCACTGAGCTCAAGGCCAAGTTTCTACAGGAAGCGAGGATC 1620
1632 TCTTGTGAGAGAGCGCTCCCACTGAGCTCAAGGCCAAGTTTCTACAGGAAGCGAGGATC 1691
1621 CTGAAGCAGTACAGCCACCCCAACATCGTGTGCTCATTTGTGTCTGACCCAGAGCAG 1680
1692 CTGAAGCAGTACAGCCACCCCAACATCGTGTGCTCATTTGTGTCTGACCCAGAGCAG 1751
1681 CCCATCTACATCTGTCATGAGCTTGTGCAGGCGGCGACTTCTTGAACCTTCTCCGCAAG 1740
1752 CCCATCTACATCTGTCATGAGCTTGTGCAGGCGGCGACTTCTTGAACCTTCTCCGCAAG 1811
1741 GAGGGGGCCGCTGCGGGTGAAGACTCTGTGCAGATGTGTGGGATGTCCCGAGAGGAAGCCGAT 1800
1812 GAGGGGGCCGCTGCGGGTGAAGACTCTGTGCAGATGTGTGGGATGTCCCGAGAGGAAGCCGAT 1871
1801 ATGAGTACCTGGAGAGCAAGTGTGCTGCATCCACCGGAGCTTGGCTGCTCGGAACCTGCGCTG 1860
1872 ATGAGTACCTGGAGAGCAAGTGTGCTGCATCCACCGGAGCTTGGCTGCTCGGAACCTGCGCTG 1931
1861 GTGACAGAGAAATGTCTTGAAGATCAGTGAATTTTGGGATGTCCCGAGAGGAAGCCGAT 1920
1932 GTGACAGAGAAATGTCTTGAAGATCAGTGAATTTTGGGATGTCCCGAGAGGAAGCCGAT 1991
1921 GGGGTCTATGACGCTCAGGGGGCTCAGACAAAGTGTCCCGAGAGGAAGCCGAT 1980
1992 GGGGTCTATGACGCTCAGGGGGCTCAGACAAAGTGTCCCGAGAGGAAGCCGAT 2051
1981 GCCCTTAACTACGGCGGCTACTCTCCGAAAGCAGCTGTGGAGCTTTGGGATCTTGGCTC 2040
2052 GCCCTTAACTACGGCGGCTACTCTCCGAAAGCAGCTGTGGAGCTTTGGGATCTTGGCTC 2111
2041 TGGGAGACCTTCAGGCTGCGGGCTTCCCTATCCCAACCTCAGCAATCAGCAGACAGG 2100
2112 TGGGAGACCTTCAGGCTTGGGGCTTCCCTATCCCAACCTCAGCAATCAGCAGACAGG 2171
2101 GAGTTTGGAGAGGGGGCGCTGCTGCCCTGCCAGAGCTGTGCTGTATGCCGTGTTTC 2160
2172 GAGTTTGGAGAGGGGGCGCTGCTGCCCTGCCAGAGCTGTGCTGTATGCCGTGTTTC 2231
2161 AGGCTCATGAGCAGTGTCTGGGCTTATGAGCTTGGGCGAGCGGCCAGCTTCAGCACCATC 2220
2232 AGGCTCATGAGCAGTGTCTGGGCTTATGAGCTTGGGCGAGCGGCCAGCTTCAGCACCATC 2291
2221 TACGAGGCTGCAGAGCATCCGAAAGCGGCATCGG 2256
2292 TACGAGGCTGCAGAGCATCCGAAAGCGGCATCGG 2327

RESULT 2
US-10-003-295-1
; Sequence 1, Application US/10003295
; Patent No. 6686187
; GENERAL INFORMATION:
; APPLICANT: GAN, Weinliu et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001183DIV
; CURRENT APPLICATION NUMBER: US/10/003,295
; CURRENT FILING DATE: 2001-12-06
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2674
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-003-295-1

Query Match		100.0%;	Score 2256;	DB 4;	Length 2674;
Best Local Similarity		100.0%;	Pred. No. 0;		
Matches 2256;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	ATGGGCTTCTCTCTGAGCTGTGCGAGCCCGCCAGGGCCACCGGGTCTCTGACGCAAACTCAG	60		
Db	72	ATGGGCTTCTCTCTGAGCTGTGCGAGCCCGCCAGGGCCACCGGGTCTCTGACGCAAACTCAG	131		
Qy	61	GAGGCCGAGCTTCTCTACTGAGGGGATGAGAAAGTGGATGGCCAGCGGGTCAAGAGT	120		
Db	132	GAGGCCGAGCTTCTCTACTGAGGGGATGAGAAAGTGGATGGCCAGCGGGTCAAGAGT	191		
Qy	121	GACAGGAGATGACGAGCTTCTTCAACATGTCCTCTGAGGACAGTGGGGGCCAGAGC	180		
Db	192	GACAGGAGATGACGAGCTTCTTCAACATGTCCTCTGAGGACAGTGGGGGCCAGAGC	251		
Qy	181	CGGGCCATCAGCCCTGACAGCCCATCAGTCAGTCCTGGCTGAGATCACCAGCCAACT	240		
Db	252	CGGGCCATCAGCCCTGACAGCCCATCAGTCAGTCCTGGCTGAGATCACCAGCCAACT	311		
Qy	241	GAGGCCCTGAGCCCTTGTCTGCGGACGACGAGGATCTGAACCTCAGGGCCCTTGAGC	300		
Db	312	GAGGCCCTGAGCCCTTGTCTGCGGACGACGAGGATCTGAACCTCAGGGCCCTTGAGC	371		
Qy	301	AAGCTGAGCTTCTATCCGGGAAACGGGACGAGCTTTCGAAGACCTACAGCGAGCTGG	360		
Db	372	AAGCTGAGCTTCTATCCGGGAAACGGGACGAGCTTTCGAAGACCTACAGCGAGCTGG	431		
Qy	361	CAGCAGCTGACGAGGAGCTCACCAAGACCCACAGCCAGGACATTTGAGAGCTTGAGAGC	420		
Db	432	CAGCAGCTGACGAGGAGCTCACCAAGACCCACAGCCAGGACATTTGAGAGCTTGAGAGC	491		
Qy	421	CAGTACCGAGCTCTGGCAACGGGACAGTCCCAAGCCCAAGCGCAAGTACAGGAGCCAGC	480		
Db	492	CAGTACCGAGCTCTGGCAACGGGACAGTCCCAAGCCCAAGCGCAAGTACAGGAGCCAGC	551		
Qy	481	AAAGCAAGGACCGTGAACAGGCCCAAGGACAAAGTATGTGCGCAGCTTGTGGAAGCTTTT	540		
Db	552	AAAGCAAGGACCGTGAACAGGCCCAAGGACAAAGTATGTGCGCAGCTTGTGGAAGCTTTT	611		
Qy	541	GCTCACCACACCGCTATGTCTGGGCTGGGGCTGGGGCTGGCGAGCTTACACCAAGCAGCAC	600		
Db	612	GCTCACCACACCGCTATGTCTGGGCTGGGGCTGGGGCTGGCGAGCTTACACCAAGCAGCAC	671		
Qy	601	CACGAGCTCTGTCTGCGCGGCTGCTGGGTCTACTGAGGACCTGACAGGAGATGGCT	660		
Db	672	CACGAGCTCTGTCTGCGCGGCTGCTGGGTCTACTGAGGACCTGACAGGAGATGGCT	731		
Qy	661	TGCATCTGAGGAGATCTCTGAGGAATACTGGAGATTAGCAGCTTGGTGCAGGATGAG	720		
Db	732	TGCATCTGAGGAGATCTCTGAGGAATACTGGAGATTAGCAGCTTGGTGCAGGATGAG	791		
Qy	721	GTGTGGCCATTACCCGGAGATGGCTGAGCTGCTGCCCGCATCCAGCTGAGGCTGAG	780		
Db	792	GTGTGGCCATTACCCGGAGATGGCTGAGCTGCTGCCCGCATCCAGCTGAGGCTGAG	851		
Qy	781	TACCAAGGCTTCTTCCGACAGTATGGGTTCGACCTGACAGCTGCCACCTGTGTCAAGCTTC	840		
Db	852	TACCAAGGCTTCTTCCGACAGTATGGGTTCGACCTGACAGCTGCCACCTGTGTCAAGCTTC	911		
Qy	841	GATGAGTCACTGTCTGAGGAGGGTGAACCGCTGGAGCTTGGGGAGCTCCAGCTGAAACGAG	900		
Db	912	GATGAGTCACTGTCTGAGGAGGGTGAACCGCTGGAGCTTGGGGAGCTCCAGCTGAAACGAG	971		
Qy	901	CTGACTGTGAGAGGCTGACACACGCTGACCTCAGTGACAGATGAGCTGGCTGTGGCC	960		
Db	972	CTGACTGTGAGAGGCTGACACACGCTGACCTCAGTGACAGATGAGCTGGCTGTGGCC	1031		
Qy	961	ACCAGAGTGTGTTCAGCGCCGACGAGATGTTACGAGCTTGCAACAGGAGCTCCGGAAT	1020		
Db	1032	ACCAGAGTGTGTTCAGCGCCGACGAGATGTTACGAGCTTGCAACAGGAGCTCCGGAAT	1091		

Qy	1021	GAAGAGGAGAAACACCCACCCCGGAGCGGGTGCAGCTGTGGGCAAGAGGCAAGTGTCTG	1080
Db	1092	GAAGAGGAGAAACACCCACCCCGGAGCGGGTGCAGCTGTGGGCAAGAGGCAAGTGTCTG	1151
Qy	1081	CAAGAAGCACTGACAGGGCTGACAGGTAGCGCTGTGCAGCCAGGCAAGCTGCAAGGCCAG	1140
Db	1152	CAAGAAGCACTGACAGGGCTGACAGGTAGCGCTGTGCAGCCAGGCAAGCTGCAAGGCCAG	1211
Qy	1141	CAGGAGTGTCTGCAGACCAAGCTGGAGCACTCGGGCCCGGGCGAGCCCCCTGTGTCTG	1200
Db	1212	CAGGAGTGTCTGCAGACCAAGCTGGAGCACTCGGGCCCGGGCGAGCCCCCTGTGTCTG	1271
Qy	1201	CTCTGAGGATGACCGCCACTCCAGTGTCTCTGAGGAGGAGGAGGAGGAGGAGGAGG	1260
Db	1272	CTCTGAGGATGACCGCCACTCCAGTGTCTCTGAGGAGGAGGAGGAGGAGGAGGAGG	1331
Qy	1261	ACACCCACGCTGAGATCTTTAAGAGCCACATCTCAGGAATCTTCGCGCCCAAGTTCTCG	1320
Db	1332	ACACCCACGCTGAGATCTTTAAGAGCCACATCTCAGGAATCTTCGCGCCCAAGTTCTCG	1391
Qy	1321	AACCTGTACCGACTGGAAGGGGAAAGCTTTCTTAGCATTCCTTTTGTCTCATCGACCCTA	1380
Db	1392	AACCTGTACCGACTGGAAGGGGAAAGCTTTCTTAGCATTCCTTTTGTCTCATCGACCCTA	1451
Qy	1381	CTGAGACCCAGAGGCGCTTCAACAAAGAGTGTGTCTCTGCACAGGGCTGTGCC	1440
Db	1452	CTGAGACCCAGAGGCGCTTCAACAAAGAGTGTGTCTCTGCACAGGGCTGTGCC	1511
Qy	1441	AAGGACAGTGGGTGTGAACATGAGGACCTGGTGTGGGTGAGCAAGTTGACGCGGG	1500
Db	1512	AAGGACAGTGGGTGTGAACATGAGGACCTGGTGTGGGTGAGCAAGTTGACGCGGG	1571
Qy	1501	AACCTTTGGGGAAGTGTTCAGCGGACCTGCGAGCCGACAAACCTTGTGGGGTGAAG	1560
Db	1572	AACCTTTGGGGAAGTGTTCAGCGGACCTGCGAGCCGACAAACCTTGTGGGGTGAAG	1631
Qy	1561	TTTGTGAGAGAGCGCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGGAGGATC	1620
Db	1632	TTTGTGAGAGAGCGCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGGAGGATC	1691
Qy	1621	CTGAAGCAGTACAGCCACCCCAACATCTGCTGCTCATTTGCTGTGCAACCAAGAGCAG	1680
Db	1692	CTGAAGCAGTACAGCCACCCCAACATCTGCTGCTCATTTGCTGTGCAACCAAGAGCAG	1751
Qy	1681	CCCATCTACATCGTATGAGCTTGTGAGGGGGGCGACTTCTGACCTTCTCCCGCAGC	1740
Db	1752	CCCATCTACATCGTATGAGCTTGTGAGGGGGGCGACTTCTGACCTTCTCCCGCAGC	1811
Qy	1741	GAGGGGGCCCGCTGCGGGTGAAGACTCTGCTGCAGATGGTGGGGGATGCACTGTCTGC	1800
Db	1812	GAGGGGGCCCGCTGCGGGTGAAGACTCTGCTGCAGATGGTGGGGGATGCACTGTCTGC	1871
Qy	1801	ATGGAGTACTTGAGAGCAAGTCTGCATCCACGGGACCTGGCTGTCTGGAACTGCTG	1860
Db	1872	ATGGAGTACTTGAGAGCAAGTCTGCATCCACGGGACCTGGCTGTCTGGAACTGCTG	1931
Qy	1861	GTGACAGAGAAAGTCTCTCTGAAAGTCAAGTCTTTGGGATGTCCCGAGAGGAGGAGCGAT	1920
Db	1932	GTGACAGAGAAAGTCTCTCTGAAAGTCAAGTCTTTGGGATGTCCCGAGAGGAGGAGCGAT	1991
Qy	1921	GGGGTCTATGACGCTCAGGGGCTCAGCAAGTCCCGTGAAGTGGAGCCGACCTGAG	1980
Db	1992	GGGGTCTATGACGCTCAGGGGCTCAGCAAGTCCCGTGAAGTGGAGCCGACCTGAG	2051
Qy	1981	GCCCTTAACTACGGCGCTACTCTCCGAAAGCGAGTGTGGAGCTTTGGCATCTTGTCTC	2040
Db	2052	GCCCTTAACTACGGCGCTACTCTCTCCGAAAGCGAGTGTGGAGCTTTGGCATCTTGTCTC	2111
Qy	2041	TGGGAGACCTTCAGCTTGGGGGCTCCCGCTATCCCAACCTCAGCAATCAGCAGACCG	2100
Db	2112	TGGGAGACCTTCAGCTTGGGGGCTCCCGCTATCCCAACCTCAGCAATCAGCAGACCG	2171
Qy	2101	GAGTTTGTGAGAAAGGGGGCGCTGTGCGCTGCGCCAGAGCTGTGTCTGTATGCGGTGTC	2160

Db 2172 GAGTTTGTGAGAGGGGGCCCTGTCCTGCCAGAGCTGTCTCTGATGCCGTGTTTC 2231
QY 2161 AGGCTCATGAGCAGTCTGGGCTATGAGCTTGGCAGGGCCAGCTTACGACCATC 2220
Db 2232 AGGCTCATGAGCAGTCTGGGCTATGAGCTTGGCAGGGCCAGCTTACGACCATC 2291
QY 2221 TACAGGAGCTGACAGAGCATCCGAAAGCGGCATCGG 2256
Db 2292 TACAGGAGCTGACAGAGCATCCGAAAGCGGCATCGG 2327

RESULT 3
US-09-387-212-5
; Sequence 5, Application US/09387212A
; Patent No. 6309849
; GENERAL INFORMATION:
; APPLICANT: ROBISON, KEITH E.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE AND
; TITLE OF INVENTION: PHOSPHATASE HOMOLOGUES AND USES THEREFOR
; FILE REFERENCE: MNI-090
; CURRENT APPLICATION NUMBER: US/09/387,212A
; CURRENT FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: All occurrences of n indicate any nucleotide
US-09-387-212-5

Query Match 13.1%; Score 296.2; DB 3; Length 361;
Best Local Similarity 97.4%; Pred. No. 6e-56;
Matches 333; Conservative 0; Mismatches 4; Indels 5; Gaps 3;
QY 1613 CGAGGATCCTGAAGCAGTACAGCCACCCCAACATCGTGGCTCTCATTTGTTGTCACCC 1672
Db 20 CNAGGATCCTGAAGCAGTACAGCCACCCCAACATCGTGGCTCTCATTTGTTGTCACCC 79
QY 1673 AGAAGCAGCCCATCTACATCGTATGGAGCTTGTGCAGGGGGCGACTTCTTGACCTTCC 1732
Db 80 AGAAGCAGCCCATCTACATCGTATGGAGCTTGTGCAGGGGGCGACTTCTTGACCTTCC 139
QY 1733 TCCGACGGAGGGGGCCGCTGCGGTGAAGACTCTGCTGCAGATGTTGGGGATGCAG 1792
Db 140 TCCGACGGAGGGGGCCGCTGCGGTGAAGACTCTGCTGCAGATGTTGGGGATGCAG 199
QY 1793 CTGCTGGCATGGAGTACCTGGAGAGCAAGTCTGCATCCACCGGGACCTGGCTGCTCGGA 1852
Db 200 CTGCTGGCATGGAGTACCTGGAGAGCAAGTCTGCATCCACCGGGACCTGGCTGCTCGGA 259
QY 1853 ACTGCTGGTGCAGAGAGAGATGCTCTGAAG-ATCAGTACTTT-GGGATGTCGCGAGA 1910
Db 260 ACTGCTGGTGCAGAGAGAGATGCTCTGAAGATCAGTACTTTGGGGATGTCGCGAGA 319
QY 1911 GGAAGCC---GATGGGTCTATGAGCTTCAGGCGCTCAG 1949
Db 320 GGAAGCCGATTGGGGTCTATGAGCTTCAGGCGCTCAG 361

RESULT 4
US-09-948-802-5
; Sequence 5, Application US/09948802
; Patent No. 6465232
; GENERAL INFORMATION:
; APPLICANT: ROBISON, KEITH E.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE AND
; TITLE OF INVENTION: PHOSPHATASE HOMOLOGUES AND USES THEREFOR
; FILE REFERENCE: MNI-090
; CURRENT APPLICATION NUMBER: US/09/948,802
; CURRENT FILING DATE: 2001-09-07

; PRIOR APPLICATION NUMBER: 09/387,212
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: All occurrences of n indicate any nucleotide
US-09-948-802-5

Query Match 13.1%; Score 296.2; DB 3; Length 361;
Best Local Similarity 97.4%; Pred. No. 6e-56;
Matches 333; Conservative 0; Mismatches 4; Indels 5; Gaps 3;
QY 1613 CGAGGATCCTGAAGCAGTACAGCCACCCCAACATCGTGGCTCTCATTTGTTGTCACCC 1672
Db 20 CNAGGATCCTGAAGCAGTACAGCCACCCCAACATCGTGGCTCTCATTTGTTGTCACCC 79
QY 1673 AGAAGCAGCCCATCTACATCGTATGGAGCTTGTGCAGGGGGCGACTTCTTGACCTTCC 1732
Db 80 AGAAGCAGCCCATCTACATCGTATGGAGCTTGTGCAGGGGGCGACTTCTTGACCTTCC 139
QY 1733 TCCGACGGAGGGGGCCGCTGCGGTGAAGACTCTGCTGCAGATGTTGGGGATGCAG 1792
Db 140 TCCGACGGAGGGGGCCGCTGCGGTGAAGACTCTGCTGCAGATGTTGGGGATGCAG 199
QY 1793 CTGCTGGCATGGAGTACCTGGAGAGCAAGTCTGCATCCACCGGGACCTGGCTGCTCGGA 1852
Db 200 CTGCTGGCATGGAGTACCTGGAGAGCAAGTCTGCATCCACCGGGACCTGGCTGCTCGGA 259
QY 1853 ACTGCTGGTGCAGAGAGAGATGCTCTGAAG-ATCAGTACTTT-GGGATGTCGCGAGA 1910
Db 260 ACTGCTGGTGCAGAGAGAGATGCTCTGAAGATCAGTACTTTGGGGATGTCGCGAGA 319
QY 1911 GGAAGCC---GATGGGTCTATGAGCTTCAGGCGCTCAG 1949
Db 320 GGAAGCCGATTGGGGTCTATGAGCTTCAGGCGCTCAG 361

RESULT 5
US-09-817-180-3
; Sequence 3, Application US/09817180
; Patent No. 6340584
; GENERAL INFORMATION:
; APPLICANT: GAN, Weiniu et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001183
; CURRENT APPLICATION NUMBER: US/09/817,180
; CURRENT FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 15297
; TYPE: DNA
; ORGANISM: Human
US-09-817-180-3

Query Match 10.1%; Score 227.2; DB 3; Length 15297;
Best Local Similarity 71.1%; Pred. No. 3.1e-40;
Matches 394; Conservative 0; Mismatches 8; Indels 152; Gaps 1;
QY 1 ATGGGCTTCTTCTCTGAGCTGTGCAGCCCGCCAGGGGCGACGGGTCTCTGAGCAAAATGCAG 60
Db 2563 ATGGGCTTCTTCTCTGAGCTGTGCAGCCCGCCAGGGGCGACGGGTCTCTGAGCAAAATGCAG 2622
QY 61 GAGGCGGAGCTTCTCTCTACTTGGAGGCGCATGAGAAATGATGCCCGGCGGTCAAGAT 120
Db 2623 GAGGCGGAGCTTCTCTCTACTTGGAGGCGCATGAGAAATGATGCCCGGCGGTCAAGAT 2682

[illegible]

US-09-949-016-628

Query Match .8.2%; Score 185.4; DB 4; Length 3921;
Best Local Similarity 55.1%; Pred. No. 3.3e-31;
Matches 385; Conservative 0; Mismatches 311; Indels 3; Gaps 1;

QY 1546 CTGCTGGCGTGAAGTCTTGTGAGAGACGGTCCACCTGACCTCAAGGCCAAGTTTCTA 1605
DB 2037 CCGGTGGCCATCAAGACGCTGAAAGCCGGCTACACAGAGAAGCAGGAGTGGATCTCTC 2096
QY 1606 CAGGAAGCGAGGATCTTGAAGCAGTACAGCCACCCCAACATCGTGGTCTCATTTGGTGTC 1665
DB 2097 GCGAGCGCGCATCATGGCCAGTTTACGCCACCAACATCATCCGCTAGAGGGCGTC 2156
QY 1666 TGCAACCCAGAGCAGCCCATCTACATCGTATGAGGCTTTGCAAGGGGGCGAGCTTCCCTG 1725
DB 2157 ATCTCCAAATACAAGCCCATGATGATCATCACTGAGTACATGGAGAATGGGCGCTGGAC 2216
QY 1726 ACCTTCTTCGACGAGGGGGCGCGCTGGGGTGAAGACTCTGTGCGAGATGGTGGG 1785
DB 2217 AAGTTCTTCCGGAGAAAGGATGGCGAGTTTCAAGCTGTCTGAGCTGGTGGCATGCTCGG 2276
QY 1786 GATGACGCTGTGSCATGGAGTACCTGAGAGCAAGTGTGCTCAAGATCACTGACCTGGCT 1845
DB 2277 GGCATCGCAGTGGCATGAAGTACCTTGCCAACTATGTGCAACCGTGACCTGGCT 2336
QY 1846 GCTCGGAACCTGCTGTGTGACAGAGAAGATGCTCTGAAGATCACTGAGTACTTTGGGATGTC 1905
DB 2337 GCCGCAACATCTCGTCAACAGCAACCTGGTCTGCAAGGTGTCTGACTTTGGCTGTCC 2396
QY 1906 CGAGAGAAGCGATGGGGTCTATGAGCT---CAGGGGGCTTCAGAACAGTCCCGGTG 1962
DB 2397 CGCGTGTGAGGACGACCCCGAGGCCACCTACACCACAGTGGCGGCAAGATCCCCATC 2456
QY 1963 AAGTGACCCACCTGAGGCGCTTAACCTAGCGCGCTACTCTCCGAAAGCGAGTGG 2022
DB 2457 CGCTGGACCCCGGAGGGCAATTTCTACCGAAGTTACCTTGCACGAGCTGTG 2516
QY 2023 AGCTTTGGCATTTGTCTGAGAGACCTTCAGCTGGGGCGCTCCCTTATCCCAACCTC 2082
DB 2517 TCCAAACACAGAGTGATGAAGCCATCAATGATGGCTTCGGGCTCCCAACACCATGGAC 2636
QY 2143 TGTCTGATCCGTTTCAAGCTCATGAGCAGTGTGGGCTTATGAGCTGGGCGCG 2202
DB 2637 TGCCCTCCGCACTCTACAGCTCATGATGAGTGTGGCAGGAGGCGTGGCCCGCG 2696

RESULT 11

US-09-949-016-628
; Sequence 2120, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2120
; LENGTH: 3921
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2120

Query Match 8.2%; Score 185.4; DB 4; Length 3921;
Best Local Similarity 55.1%; Pred. No. 3.3e-31;
Matches 385; Conservative 0; Mismatches 311; Indels 3; Gaps 1;

QY 1546 CTGCTGGCGTGAAGTCTTGTGAGAGACGGTCCACCTGACCTCAAGGCCAAGTTTCTA 1605
DB 2037 CCGGTGGCCATCAAGACGCTGAAAGCCGGCTACACAGAGAAGCAGGAGTGGATCTCTC 2096
QY 1606 CAGGAAGCGAGGATCTTGAAGCAGTACAGCCACCCCAACATCGTGGTCTCATTTGGTGTC 1665
DB 2097 GCGAGCGCGCATCATGGCCAGTTTACGCCACCAACATCATCCGCTAGAGGGCGTC 2156
QY 1666 TGCAACCCAGAGCAGCCCATCTACATCGTATGAGGCTTTGCAAGGGGGCGAGCTTCCCTG 1725
DB 2157 ATCTCCAAATACAAGCCCATGATGATCATCACTGAGTACATGGAGAATGGGCGCTGGAC 2216
QY 1726 ACCTTCTTCGACGAGGGGGCGCGCTGGGGTGAAGACTCTGTGCGAGATGGTGGG 1785
DB 2217 AAGTTCTTCCGGAGAAAGGATGGCGAGTTTCAAGCTGTCTGAGCTGGTGGCATGCTCGG 2276
QY 1786 GATGACGCTGTGSCATGGAGTACCTGAGAGCAAGTGTGCTCAAGATCACTGACCTGGCT 1845
DB 2277 GGCATCGCAGTGGCATGAAGTACCTTGCCAACTATGTGCAACCGTGACCTGGCT 2336
QY 1846 GCTCGGAACCTGCTGTGTGACAGAGAAGATGCTCTGAAGATCACTGAGTACTTTGGGATGTC 1905
DB 2337 GCCGCAACATCTCGTCAACAGCAACCTGGTCTGCAAGGTGTCTGACTTTGGCTGTCC 2396
QY 1906 CGAGAGAAGCGATGGGGTCTATGAGCT---CAGGGGGCTTCAGAACAGTCCCGGTG 1962
DB 2397 CGCGTGTGAGGACGACCCCGAGGCCACCTACACCACAGTGGCGGCAAGATCCCCATC 2456
QY 1963 AAGTGACCCACCTGAGGCGCTTAACCTAGCGCGCTACTCTCCGAAAGCGAGTGG 2022
DB 2457 CGCTGGACCCCGGAGGGCAATTTCTACCGAAGTTACCTTGCACGAGCTGTG 2516
QY 2023 AGCTTTGGCATTTGTCTGAGAGACCTTCAGCTGGGGCGCTCCCTTATCCCAACCTC 2082
DB 2517 TGTCTGATCCGTTTCAAGCTCATGAGCAGTGTGGGCTTATGAGCTGGGCGCG 2202
QY 2143 TGTCTGATCCGTTTCAAGCTCATGAGCAGTGTGGGCTTATGAGCTGGGCGCG 2202
DB 2637 TGCCCTCCGCACTCTACAGCTCATGATGAGTGTGGCAGGAGGCGTGGCCCGCG 2696

RESULT 12

US-09-949-016-5662
; Sequence 5662, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0002 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 1483:
SEQUENCE CHARACTERISTICS:
LENGTH: 3416 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GENBANK
CLONE: 9988304
US-09-016-434-1483

Search completed: August 9, 2005, 21:35:06
Job time : 502.791 secs

Query Match 7.7%; Score 174.6; DB 4; Length 3416;
Best Local Similarity 54.7%; Pred. No. 7.5e-29;
Matches 392; Conservative 0; Mismatches 319; Indels 6; Gaps 2;

Qy	1498	GGGAACCTTTGGCGAAGTGTTCAGCGGACGCTCGGAGCCGACACACACCTGGTGGCGGTG	1557
Db	1416	GGGGAGGTCTATGAAGGTGCTACAAATCAAAAGGGGAGAAATCAATGTAGCTGTC	1475
Qy	1558	AAGTCTTGTGAGAGAGCTGCCACCTCAAGGCCAAAGTTCTACAGGAAGCGAGG	1617
Db	1476	AAGACCTGCAAGAAGACTGCACCTCGGACAAAGGAGAGTTTCATGAGCGAGGCGAGTG	1535
Qy	1618	ATCCTGAAGCAGTACAGCCACCCCAACATGTCGGTCTCATTTGGTCTGACCCAGAG	1677
Db	1536	ATCATGAAGAACCTCGACCAACCCGACATCGTAAGCTATCGGCAT---CATTTAAGAG	1592
Qy	1678	CAGCCCATCTACATCGTCATGGAGCTGTGACGGGGGGGACCTTCCTGACCTTCCTCCGC	1737
Db	1593	GAGCCACCTGGATCATATGGAATTGTATCCCTATGGGAGCTGGGCCACTACCTGGAG	1652
Qy	1738	ACGAGGGGCGCGCTCGCGGTGAAGACTCTCTGCAGATGGTGGGGATGCAGCTGCT	1797
Db	1653	CGGAACAAGAACTCCCTGAAGGTGCTCACCTCGTCTACTGCTGAGATATGCAAA	1712
Qy	1798	GGATGAGTACCTGGAGAGCAAGTGTGCTACACGGGACCTGCTGCTCGGAAGTGC	1857
Db	1713	GCCATGSCCTTACCTGGAGAGCATCAACTGCGTGCACAGGACATGCTGTCCGGAAACATC	1772
Qy	1858	CTGTGACAGAGAAGATGCTCTGAAGATCAGTGACTTTTGGGATGTCCCGAGAGGAAGCC	1917
Db	1773	CTGTGGCCTCCCTGAGTGTGTGAAGCTGGGGGACCTTTGGTCTTTCCCGGTACATTGAG	1832
Qy	1918	GATGGGTCTATGAGCCTCAGGGGGCCTCAGACAAGTCCCGTGAAGTGGACCCGACCT	1977
Db	1833	GACGAGGACTAT---TACAAAGCCTCTGTGACTCGTCTCCCATCAATGAGATGTCCTCCCA	1889
Qy	1978	GAGCCCTTAACCTACGGCCCTACTCTCCGAAGCGACGTGTGGAGCTTTGGCATCTTG	2037
Db	1890	GAGTCCATTAACTTCCGACGCTTCAAGACAGCAGTGACGTCTGGATGTTTCGCCGTGTC	1949
Qy	2038	CTCTGGGAGACCTTACGCTGGGGGCTCCCGCTATCCCAACCTCAGCAATCAGCAGACA	2097
Db	1950	ATGTGGAGATCTGAGCTTTGGAGCAGCCCTTCTTCTGGCTGGAGAACAGGATGTC	2009
Qy	2098	CGGAGTTTGTGAGAAAGGGGGCCGTCTGCCCTGCCCCAGAGCTGTGCTGTATGCCGTG	2157
Db	2010	ATCGGGGTGTGGAGAAAGGAGACCGGCTGCCCAAGCCTGATCTCTGTCCACCGGTCCTT	2069
Qy	2158	TTCAGGCTCATGAGCAGTGTGCGCTATGAGCTGGGCGGAGCGGCGCCAGCTTCAGC	2214
Db	2070	TATACCTCATGACCCGCTGCTGGGACTACGACCCCAAGTACCGGCCCCCGCTTCACC	2126

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 9, 2005, 20:15:00 ; Search time 2382.73 Seconds
(without alignments)
7274.725 Million cell updates/sec

Title: US-10-660-763-1
Perfect score: 2674
Sequence: 1 tccgggggtccgaccgggcc.....aaaaaaaaaaaaaaaaa 2674

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 7297361 seqs, 3241162794 residues

Total number of hits satisfying chosen parameters: 14594722

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq.*
6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq.*
7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq.*
8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq.*
13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq.*
19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq.*
20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq.*
21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq.*
22: /cgn2_6/ptodata/1/pubpna/US10J_PUBCOMB.seq.*
23: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*
24: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq.*
25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2674	100.0	2674	13	US-10-003-295-1
2	2674	100.0	2674	18	US-10-660-763-1
3	2326.4	87.0	2889	16	US-10-240-965-256
4	362.4	13.6	15297	13	US-10-003-295-3
5	362.4	13.6	15297	18	US-10-660-763-3
6	328.8	12.3	2950	21	US-10-887-553A-240
7	326.8	12.2	449	10	US-09-918-995-1503

296.2	11.1	361	9	US-09-948-802-5	Sequence 5, Appli
296.2	11.1	361	15	US-10-121-925-5	Sequence 5, Appli
271.6	10.2	1779	18	US-10-280-576-19	Sequence 19, Appl
201.2	7.5	3875	15	US-10-101-510-525	Sequence 525, App
198	7.4	2955	19	US-10-384-339C-1	Sequence 1, Appli
198	7.4	3370	9	US-09-967-768A-144	Sequence 144, App
198	7.4	3370	16	US-10-354-358-101	Sequence 101, App
198	7.4	3370	16	US-10-210-120-19	Sequence 19, Appl
198	7.4	3370	20	US-10-776-827-82	Sequence 82, Appl
198	7.4	3370	19	US-10-473-974-219	Sequence 219, App
198	7.4	3370	21	US-10-843-641A-6289	Sequence 6289, Ap
198	7.4	3370	22	US-10-909-035-19	Sequence 19, Appl
185.4	6.9	3042	19	US-10-384-339C-2	Sequence 29, Appl
185.4	6.9	3921	15	US-09-921-406C-29	Sequence 222, App
185.4	6.9	3921	16	US-10-007-926A-222	Sequence 19, Appl
185.4	6.9	3921	16	US-10-269-909-19	Sequence 1, Appli
185.4	6.9	3921	17	US-10-366-288-1	Sequence 1036, Ap
185.4	6.9	3921	17	US-10-172-118-1036	Sequence 1036, Ap
185.4	6.9	3921	18	US-10-342-887-1036	Sequence 1036, Ap
185.4	6.9	3921	18	US-10-287-226-319	Sequence 319, Appl
185.4	6.9	3921	19	US-10-648-593-1	Sequence 1, Appli
185.4	6.9	3921	20	US-10-473-974-223	Sequence 223, App
185.4	6.9	3921	21	US-10-616-403-5	Sequence 5, Appli
185.4	6.9	3921	21	US-10-897-711-1	Sequence 1, Appli
176.2	6.6	1518	18	US-10-280-576-24	Sequence 24, Appl
174.6	6.5	1050	19	US-10-377-268-4	Sequence 3, Appli
174.6	6.5	1050	19	US-10-377-268-4	Sequence 4, Appli
174.6	6.5	3030	16	US-10-325-430-8	Sequence 8, Appli
174.6	6.5	3416	8	US-08-987-689A-1	Sequence 1, Appli
174.6	6.5	3416	15	US-10-292-524-1	Sequence 1, Appli
174.6	6.5	3416	17	US-10-464-805-2	Sequence 2, Appli
174.6	6.5	3416	17	US-10-305-720-1483	Sequence 1483, Ap
174.6	6.5	3416	21	US-10-860-066-1	Sequence 1, Appli
174.6	6.5	3544	14	US-10-161-803-51	Sequence 51, Appl
174.6	6.5	4089	17	US-10-291-808-13	Sequence 13, Appl
174.6	6.5	4089	19	US-10-620-052A-7	Sequence 7, Appli
174.6	6.5	4151	14	US-10-161-803-52	Sequence 52, Appl
174.6	6.5	4151	16	US-10-325-430-7	Sequence 7, Appli

ALIGNMENTS

RESULT 1

US-10-003-295-1
; Sequence 1, Application US/10003295
; Publication No: US20020168741A1
; GENERAL INFORMATION:
; APPLICANT: GAN, Weiniu et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001183DIV
; CURRENT APPLICATION NUMBER: US/10/003,295
; CURRENT FILING DATE: 2001-12-06
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2674
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-003-295-1

Query Match	100.0%	Score 2674;	DB 13;	Length 2674;
Best Local Similarity	100.0%	Pred No. 0;		
Matches 2674;	Conservative	0;	Mismatches	0;
			Indels	0;
			Gaps	0;
Qy	1	TCCGGGGTCCGACCGGGCTGAGTCGGTCCGAGGCGTCCGAGGAGCAGCTCCCGTGC	60	
Db	1	TCCGGGGTCCGACCGGGCTGAGTCGGTCCGAGGCGTCCGAGGAGCAGCTCCCGTGC	60	
Qy	61	GGAAAGCACTATGGGCTTCTTCTGAGTGTGAGCCCGCCAGGCGGCGGTCTCTGC	120	

Db 61 GGAACGACATATGGGCTTCTCTTCTAGCTGTGCAGCCCCCAGGGGCCACGGGGTCTCTGC 120
 Qy 121 AGCAATATGACGAGGCGGAGCTTCGTCTACTGGAGGGCATGAAAGTGGATGGGCCACG 180
 Db 121 AGCAATATGACGAGGCGGAGCTTCGTCTACTGGAGGGCATGAAAGTGGATGGGCCACG 180
 Qy 181 GGGTCAAGAGTACAGGGAGTATGACAGGACTGTCTTCAACACATGTCCCTGACAGGACAGTG 240
 Db 181 GGGTCAAGAGTACAGGGAGTATGACAGGACTGTCTTCAACACATGTCCCTGACAGGACAGTG 240
 Qy 241 GGGCCAGAGCCGGGCGCATCAGCCCTGACAGCCCATCAGTCACTCTGGGCTGAGATCA 300
 Db 241 GGGCCAGAGCCGGGCGCATCAGCCCTGACAGCCCATCAGTCACTCTGGGCTGAGATCA 300
 Qy 301 CCAGCAAACTGAGGGGCTCAGCGCTGTCTGCGGAGCAGCAGCAGGAGTCTGAACTCAG 360
 Db 301 CCAGCAAACTGAGGGGCTCAGCGCTGTCTGCGGAGCAGCAGCAGGAGTCTGAACTCAG 360
 Qy 361 GGGCCCTGAGCAAGCTGAGCTGTCTATCCGGGAAACGGCAGAGCTTGGCAGACCTACA 420
 Db 361 GGGCCCTGAGCAAGCTGAGCTGTCTATCCGGGAAACGGCAGAGCTTGGCAGACCTACA 420
 Qy 421 GCGAGCAGTGGCAGCAGCTGACAGAGCTCACCAAGACCCACAGCAGGACATTTAGA 480
 Db 421 GCGAGCAGTGGCAGCAGCTGACAGAGCTCACCAAGACCCACAGCAGGACATTTAGA 480
 Qy 481 AGCTGAAGAGCCAGTACCGAGCTCTGGCAGCGGACAGTCCCAAGCAGCAGCAAGTACC 540
 Db 481 AGCTGAAGAGCCAGTACCGAGCTCTGGCAGCGGACAGTCCCAAGCAGCAGCAAGTACC 540
 Qy 541 AGGAGCCAGCAAGAACHAAGACCGTGCACAGCCAGGACMAAGTATGTCCGACGCTGT 600
 Db 541 AGGAGCCAGCAAGAACHAAGACCGTGCACAGCCAGGACMAAGTATGTCCGACGCTGT 600
 Qy 601 GGAAGCTTTTGTCTCACCACAAACCGCTATGTCTGGGCGTGCAGGCTGCGACGTACAC 660
 Db 601 GGAAGCTTTTGTCTCACCACAAACCGCTATGTCTGGGCGTGCAGGCTGCGACGTACAC 660
 Qy 661 ACCAGCACCAACAGCTCTCTGTGCGCGGCTGTCTGCGGTCACTGCAGGACCTGCACG 720
 Db 661 ACCAGCACCAACAGCTCTCTGTGCGCGGCTGTCTGCGGTCACTGCAGGACCTGCACG 720
 Qy 721 AGGAGATGGCTTGCATCTTGAAGGAGATCTTGCAGGAATACCTGGAGATTAGCAGCCTGG 780
 Db 721 AGGAGATGGCTTGCATCTTGAAGGAGATCTTGCAGGAATACCTGGAGATTAGCAGCCTGG 780
 Qy 781 TGCAGGATGAGTGTGGCCATTCAACCGGAGATGGCTGCAGCTGTGCTCCCGCATCCAGC 840
 Db 781 TGCAGGATGAGTGTGGCCATTCAACCGGAGATGGCTGCAGCTGTGCTCCCGCATCCAGC 840
 Qy 841 CTGAGGCTGAGTACCAAGGCTTCTTCCGACAGTATGGGTCCGCACCTCAGCTCCACCCCT 900
 Db 841 CTGAGGCTGAGTACCAAGGCTTCTTCCGACAGTATGGGTCCGCACCTCAGCTCCACCCCT 900
 Qy 901 GTGTACGTTTCAATGAGTCACTGTCTGAGGAGGTTGAACCGCTGAGGCTGGGAGCTCC 960
 Db 901 GTGTACGTTTCAATGAGTCACTGTCTGAGGAGGTTGAACCGCTGAGGCTGGGAGCTCC 960
 Qy 961 AGCTGAACAGCTGACTGTGGAGAGCTGCAGCACCGCTGACCTCAGTGCAGATGAGC 1020
 Db 961 AGCTGAACAGCTGACTGTGGAGAGCTGCAGCACCGCTGACCTCAGTGCAGATGAGC 1020
 Qy 1021 TGGCTGTGGCCACCGAGATGGTGTTCAGGCGGAGGAGATGGTTACGCAAGCTGCAACAGG 1080
 Db 1021 TGGCTGTGGCCACCGAGATGGTGTTCAGGCGGAGGAGATGGTTACGCAAGCTGCAACAGG 1080
 Qy 1081 AGCTCCGGAAATGAAGAGGAGAAACCCACCCCGGAGGAGTGCAGCTGCTGGGCAAGA 1140
 Db 1081 AGCTCCGGAAATGAAGAGGAGAAACCCACCCCGGAGGAGTGCAGCTGCTGGGCAAGA 1140
 Qy 1141 GGCNAGTGTGCAAGAGGAGCTGACGGGCTGAGGCTGTGAGCTGTGAGCTTGGGCAAGC 1200
 Db 1141 GGCNAGTGTGCAAGAGGAGCTGACGGGCTGAGGCTGTGAGCTGTGAGCTTGGGCAAGC 1200

Qy 1201 TGCAGGCCCAGCAGGAGTTGCTCTGCAGACCAAGCTGGAGCACCTTGGCCCCCGGAGGCCCC 1260
 Db 1201 TGCAGGCCCAGCAGGAGTTGCTCTGCAGACCAAGCTGGAGCACCTTGGCCCCCGGAGGCCCC 1260
 Qy 1261 CGCTGTGCTGCTCTCTGCAGGATGACCGCACCTCCACGTGCTCCTCGGAGCAGGAGCGAG 1320
 Db 1261 CGCTGTGCTGCTCTCTGCAGGATGACCGCACCTCCACGTGCTCCTCGGAGCAGGAGCGAG 1320
 Qy 1321 AGGGGGAAAGAACACCCACGCTGGAGATCCTTTAAGAGCCACATCTCAGGAATCTTCGCGC 1380
 Db 1321 AGGGGGAAAGAACACCCACGCTGGAGATCCTTTAAGAGCCACATCTCAGGAATCTTCGCGC 1380
 Qy 1381 CCAAGTTCTCGAACCTGTACCGACTGTGAAGGGGAAGGCTTTCTCTAGCATTTCTTTGTCTCA 1440
 Db 1381 CCAAGTTCTCGAACCTGTACCGACTGTGAAGGGGAAGGCTTTCTCTAGCATTTCTTTGTCTCA 1440
 Qy 1441 TCGACCACTTACTGAGCACCCAGCAGCCCTTACCAAGAGAGTGGTGTCTCTGCACA 1500
 Db 1441 TCGACCACTTACTGAGCACCCAGCAGCCCTTACCAAGAGAGTGGTGTCTCTGCACA 1500
 Qy 1501 GGGCTGTGCCCAAGGACAGTGGGTGCTGAACCATGAGGACCTTGGTGTGGGTGAGCAGA 1560
 Db 1501 GGGCTGTGCCCAAGGACAGTGGGTGCTGAACCATGAGGACCTTGGTGTGGGTGAGCAGA 1560
 Qy 1561 TTGACACGGGGAACTTTTGGCGAAGTGTTCAGCGAACGCTGCGAGCGGACCAACACCTTGG 1620
 Db 1561 TTGACACGGGGAACTTTTGGCGAAGTGTTCAGCGAACGCTGCGAGCGGACCAACACCTTGG 1620
 Qy 1621 TGGCGGTGAAGTCTTTGTCGAGAGCGCTCCCACTGACCTCAAGGCCAAGTTTCTACAGG 1680
 Db 1621 TGGCGGTGAAGTCTTTGTCGAGAGCGCTCCCACTGACCTCAAGGCCAAGTTTCTACAGG 1680
 Qy 1681 AAGCAGGATCTGAAGCAGTACAGCCACCCCAACATCGTGCCTCTCATTTGGTGTCTGCA 1740
 Db 1681 AAGCAGGATCTGAAGCAGTACAGCCACCCCAACATCGTGCCTCTCATTTGGTGTCTGCA 1740
 Qy 1741 CCCAAGAGAGCCCATCTTACATCGTATGAGCTTTGTCAGGGGGGCGACCTTCTTGACCT 1800
 Db 1741 CCCAAGAGAGCCCATCTTACATCGTATGAGCTTTGTCAGGGGGGCGACCTTCTTGACCT 1800
 Qy 1801 TCTCTCGCACGAGGGGGCCCGCTTGCAGGCTGGAAGACTCTGCTGCAGATGGTGGGGGATG 1860
 Db 1801 TCTCTCGCACGAGGGGGCCCGCTTGCAGGCTGGAAGACTCTGCTGCAGATGGTGGGGGATG 1860
 Qy 1861 CAGCTGTGECATGAGATACCTTGGAGAGCAAGTGTGCATCCACCGGACCTTGGCTGCTC 1920
 Db 1861 CAGCTGTGECATGAGATACCTTGGAGAGCAAGTGTGCATCCACCGGACCTTGGCTGCTC 1920
 Qy 1921 GGAAGTGTGGTGTGACAGAGAGAAATGTCTTCAAGATCAGTCACTTTGGGATGTCCCCGAG 1980
 Db 1921 GGAAGTGTGGTGTGACAGAGAGAAATGTCTTCAAGATCAGTCACTTTGGGATGTCCCCGAG 1980
 Qy 1981 AGGAAGCCGATGGGGTCTATGACAGCTCAGGGGGCTCAGACAAGTCCCGCTGAAGTGA 2040
 Db 1981 AGGAAGCCGATGGGGTCTATGACAGCTCAGGGGGCTCAGACAAGTCCCGCTGAAGTGA 2040
 Qy 2041 CCGCACTGAGGGCCCTTAAGTACGCGGCTTCTCTCCGAAACGACGCTTGGAGCTTTG 2100
 Db 2041 CCGCACTGAGGGCCCTTAAGTACGCGGCTTCTCTCCGAAACGACGCTTGGAGCTTTG 2100
 Qy 2101 GCATCTTGTCTGCGGAGACCTTTCAGGCTTGGGGGCTTCCCCCTATCCAACTCAGCAATC 2160
 Db 2101 GCATCTTGTCTGCGGAGACCTTTCAGGCTTGGGGGCTTCCCCCTATCCAACTCAGCAATC 2160
 Qy 2161 AGCAGACACGGGAGTTTGTGGAGAGGGGGCGCTGCTCCCTGCCAGAGCTGTGTCTG 2220
 Db 2161 AGCAGACACGGGAGTTTGTGGAGAGGGGGCGCTGCTCCCTGCCAGAGCTGTGTCTG 2220
 Qy 2221 ATGCCGTTTTCAGGCTCATGGAGCAGTGTCTGGGCTTATGAGCTTGGGAGCGGCGCCAGCT 2280
 Db 2221 ATGCCGTTTTCAGGCTCATGGAGCAGTGTCTGGGCTTATGAGCTTGGGAGCGGCGCCAGCT 2280

Qy	2281	TCAGCACATCTAC	CAGAGCTG	CAGAGCATCC	GAAGCGGC	CATCGGTG	AGGCTGGG	ACC	2340	
Db	2281	TCAGCACCATCT	ACAGAGCTG	CAGAGCATCC	GAAGCGGC	CATCGGTG	AGGCTGGG	ACC	2340	
Qy	2341	CCCTTCTCAAG	CTGGTGCCTCT	CAGCGCTTAG	GTGAGCTTC	CTCAGCGG	CTCCAGCTCA		2400	
Db	2341	CCCTTCTCAAG	CTGGTGCCTCT	CAGCGCTTAG	GTGAGCTTC	CTCAGCGG	CTCCAGCTCA		2400	
Qy	2401	TATGCTGACAG	CTCTTAC	AGTCTCTG	CAGTCTCT	CCACCAG	CATCCAC	ACTGCCGCGCAGG	2460	
Db	2401	TATGCTGACAG	CTCTTAC	AGTCTCTG	CAGTCTCT	CCACCAG	CATCCAC	ACTGCCGCGCAGG	2460	
Qy	2461	ATGCGAGCGCG	TGTCCTCT	CTGTGTC	TCCCTG	CTGCTG	CTGCAGG	GGCTTCCTCTTC	CGGGCAGA	2520
Db	2461	ATGCGAGCGCG	TGTCCTCT	CTGTGTC	TCCCTG	CTGCTG	CTGCAGG	GGCTTCCTCTTC	CGGGCAGA	2520
Qy	2521	AACAAATAAA	ACCACTTG	TGCCCACTG	AAAGAAAA	AAAAA	AAAAA	AAAAA	AAAAA	2580
Db	2521	AACAAATAAA	ACCACTTG	TGCCCACTG	AAAGAAAA	AAAAA	AAAAA	AAAAA	AAAAA	2580
Qy	2581	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	2640
Db	2581	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	2640
Qy	2641	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	2674
Db	2641	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	AAAAA	2674

RESULT 2

US-10-660-763-1

; Sequence 1, Application US/10660763
; Publication No. US20040063130A1
; GENERAL INFORMATION:
; APPLICANT: GAN, Weiniu et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001183DIV1
; CURRENT APPLICATION NUMBER: US/10/660,763
; CURRENT FILING DATE: 2003-09-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2674
; TYPE: DNA
; ORGANISM: Homo sapiens
; SS-10-660-763-1

Query Match	100.0%;	Score 2674;	DB 18;	Length 2674;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 2674;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	TCGGGGTCCGACACGGGCGCTGAGTCGGTCCGAGGGCGTCCGAGGAGCAGCTGCCCGTGC	60	
Db	1	TCGGGGTCCGACACGGGCGCTGAGTCGGTCCGAGGGCGTCCGAGGAGCAGCTGCCCGTGC	60	
Qy	61	GGACACACTATGGGCTTCTCTTCAGCTGTGCAGCCCCCAGGGGCCACGGGGTCTCTGC	120	
Db	61	GGAACAGCACTATGGGCTTCTCTTCAGCTGTGCAGCCCCCAGGGGCCACGGGGTCTCTGC	120	
Qy	121	AGCAAAATGCAGGAGCGCCGAGTTCGTCTACTGGAGGGCATGAGAAAGTGATGCCCCAGC	180	
Db	121	AGCAAAATGCAGGAGCGCCGAGTTCGTCTACTGGAGGGCATGAGAAAGTGATGCCCCAGC	180	
Qy	181	GGGTCAAGAGTGACAGGGAGTATCCAGGACTGCTTCCACCATGTCTCCCTGCAGSACAGTG	240	
Db	181	GGGTCAAGAGTGACAGGGAGTATCCAGGACTGCTTCCACCATGTCTCCCTGCAGGACAGTG	240	
Qy	241	GGGGCCAGAGCCGGGGCCATCAGCCCTGACAGCCCCCATCAGTCAGTCTCTGGGCTGAGATCA	300	
Db	241	GGGGCCAGAGCCGGGGCCATCAGCCCTGACAGCCCCCATCAGTCAGTCTCTGGGCTGAGATCA	300	

QY	301	CCAGCCAAACTGAGGGCCTTGAGCGCTTGCTGCGGCAGCAGCGAGAGATCTGAACTCAG	360
DB	301	CCAGCCAAACTGAGGGCCTGAGCGCTTGCTGCGGCAGCAGCGAGAGATCTGAACTCAG	360
QY	361	GGCCCTTGACGACGCTGAGCCTCTCTCATCCGGGAAAGCGCAGCAGCTTCGCAAGACCTACA	420
DB	361	GGCCCTTGAGCAAGCTGAGCCTTGCTCATCCGGGAAAGCGCAGCAGCTTCGCAAGACCTACA	420
QY	421	GCAGCAGTGGCAGCAGCTGCAGCAGAGGCTCACCAAGACCAGCAGCCAGGACATTGAGA	480
DB	421	GCAGCAGTGGCAGCAGCTGCAGCAGAGGCTCACCAAGACCAGCAGCCAGGACATTGAGA	480
QY	481	AGCTGAAGAGCAGTACCGAGCTTGCGACGGGACAGTGCACCAAGCGCAAGCGCAAGTACC	540
DB	481	AGCTGAAGAGCAGTACCGAGCTTGCGACGGGACAGTGCACCAAGCGCAAGCGCAAGTACC	540
QY	541	AGGAGGCCAAGACAAAGGACCGTGACAAAGGCCAGGACAGTATGTGCGCAGCCTGT	600
DB	541	AGGAGGCCAAGAACAAAGGACCGTGACAAAGGCCAAGGACAAGTATGTGCGCAGCCTGT	600
QY	601	GGAACTCTTTGCTACCAACAAACCGCTATGTGTGGGCGTGCAGGCTGCAGCTACACC	660
DB	601	GGAACTCTTTGCTACCAACAAACCGCTATGTGTGGGCGTGCAGGCTGCAGCTACACC	660
QY	661	ACCAGCACCAACCAAGCTCCTGCTGCCCGCTGTGCGGTCACTGCAAGACTGCACG	720
DB	661	ACCAGCACCAACCAAGCTCCTGCTGCCCGCTGTGCGGTCACTGCAAGACTGCACG	720
QY	721	AGGAGATGGCTTGCATCTCAAGGAGATCTGCAGGAAATACCTGGAGATTAGCAGCCTGG	780
DB	721	AGGAGATGGCTTGCATCTCAAGGAGATCTGCAGGAAATACCTGGAGATTAGCAGCCTGG	780
QY	781	TGCAGGATGAGGTGGTGGCCATTACCGGAGATGGCTGCAGCTGCTGCCGATCCAGC	840
DB	781	TGCAGGATGAGGTGGTGGCCATTACCGGAGATGGCTGCAGCTGCTGCCGATCCAGC	840
QY	841	CTGAGGCTGAGTACCAAGGCTTCTGCGACAGTATGGGTCCGACCTGCAGCTCCACCT	900
DB	841	CTGAGGCTGAGTACCAAGGCTTCTGCGACAGTATGGGTCCGACCTGCAGCTCCACCT	900
QY	901	GTGTACGTTGATGAGTCACTGCTTGAGAGGGTGAAACCGCTGGAGCCTGGGGAGCTCC	960
DB	901	GTGTACGTTGATGAGTCACTGCTTGAGAGGGTGAAACCGCTGGAGCCTGGGGAGCTCC	960
QY	961	AGCTGAACGAGCTGACTGTCGAGAGCGTGACGACACGCTGACTAGTGACAGATGAGC	1020
DB	961	AGCTGAACGAGCTGACTGTCGAGAGCGTGACGACACGCTGACTAGTGACAGATGAGC	1020
QY	1021	TGGCTGTGGCCACCGAGATGGTGTTCAGGCGGAGGAGATGGTTACGACCTGCAACAGG	1080
DB	1021	TGGCTGTGGCCACCGAGATGGTGTTCAGGCGGAGGAGATGGTTACGACCTGCAACAGG	1080
QY	1081	AGCTCCGGATGAAGAGGAGAAACCCACCCCGGAGCGGGTGAGCTCTGGGCAAGA	1140
DB	1081	AGCTCCGGATGAAGAGGAGAAACCCACCCCGGAGCGGGTGAGCTCTGGGCAAGA	1140
QY	1141	GGCAAGTGTGCAAGAGACATCGAGGGGTGCAAGGTAGCGCTGTCAGCCAGCCAGCAAGC	1200
DB	1141	GGCAAGTGTGCAAGAGACATCGAGGGGTGCAAGGTAGCGCTGTCAGCCAGCCAGCAAGC	1200
QY	1201	TGCAGGCCACGACGAGGTGCTGCAGACCAAGCTGGAGCACCTGGGCCCCGGGAGCCCC	1260
DB	1201	TGCAGGCCACGACGAGGTGCTGCAGACCAAGCTGGAGCACCTGGGCCCCGGGAGCCCC	1260
QY	1261	CGCTGTGCTGCTCTGCAGGATGACCGCACCTCCACGTGCTGCTCGGAGCAGGAGCGAG	1320
DB	1261	CGCTGTGCTGCTCTGCAGGATGACCGCACCTCCACGTGCTGCTCGGAGCAGGAGCGAG	1320
QY	1321	AGGGGGAAGGACACCCAGCTGGAGTCCCTTAAGAGCCACATCTCAGGAATCTTCGCC	1380
DB	1321	AGGGGGAAGGACACCCAGCTGGAGTCCCTTAAGAGCCACATCTCAGGAATCTTCGCC	1380
QY	1381	CCAAGTTCTCGAACTGTACCGACTGGAAGGGGAAGGCTTTCTCTAGCATTTCTTTGTCTCA	1440

Db 2638 TCCGAAAGCGGCATCGTGAGGCTGGAGCCCCCTTCTCAAGCTGTGTGGCTCTGCAAGGCC 2697
QY 2371 TAGGTGAGCTCTCAGCGGCTCAGCTCATATGCTGACAGCTCTTCACAGTCTCTGGACT 2430
Db 2698 TAGGTGAGCTCTCAGCGGCTCAGCTCATATGCTGACAGCTCTTCACAGTCTCTGGACT 2757
QY 2431 CTTGCCACAGAGTACACAGCTGCGGCAGGATGACGCGGTGTCTCTCTGTGTCCCTG 2490
Db 2758 CTTGCCACAGAGTACACAGCTGCGGCAGGATGACGCGGTGTCTCTCTGTGTCCCTG 2817
QY 2491 CTGCTGCCAGGGTCTCTCTTCCGGGCAGAAACAATAAAACCACTTGTGCCCACTGAAA 2550
Db 2818 CTGCTGCCAGGGTCTCTCTTCCGGGCAGAAACAATAAAACCACTTGTGCCCACTGAAA 2877
QY 2551 AAAAAA 2560
Db 2878 AAAAAA 2887

RESULT 4

US-10-003-295-3
; Sequence 3, Application US/10003295
; Publication No. US20020168741A1
; GENERAL INFORMATION:
; APPLICANT: GAN, Weinliu et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001183DIV
; CURRENT APPLICATION NUMBER: US/10/003,295
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 15297
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-003-295-3

Query Match 13.6%; Score 362.4; DB 13; Length 15297;
Best Local Similarity 99.7%; Pred. No. 1.3e-46;
Matches 363; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2187 GGGGGCGCTGTGCCCTGCCAGAGCTGTGCTCCTGATGCCGTGTTCAGGCTCATGGAGCAG 2246
Db 12938 GGGGGCGCTGTGCCCTGCCAGAGCTGTGCTCCTGATGCCGTGTTCAGGCTCATGGAGCAG 12997
QY 2247 TGCTGGGCTATGAGCTGGGCGGCGGCTTACGACCATCTACAGGAGCTGCAG 2306
Db 12998 TGCTGGGCTATGAGCTGGGCGGCGGCTTACGACCATCTACAGGAGCTGCAG 13057
QY 2307 AGCATCCGAAAGCGGCATCGTGAGGCTGGGACCCCTTCTCAAGCTGTGTGGCTCTGCA 2366
Db 13058 AGCATCCGAAAGCGGCATCGTGAGGCTGGGACCCCTTCTCAAGCTGTGTGGCTCTGCA 13117
QY 2367 GGCCTAGGTGAGCTCTCAGCGGCTCCAGCTCATATGCTGACAGCTTTTCACAGTCTTG 2426
Db 13118 GGCCTAGGTGAGCTCTCAGCGGCTCCAGCTCATATGCTGACAGCTTTTCACAGTCTTG 13177
QY 2427 GACTCTGCGCACAGCATCCACATGCGGCGGAGATGACGCGCGGTCTCTCTGTGTC 2486
Db 13178 GACTCTGCGCACAGCATCCACATGCGGCGGAGATGACGCGCGGTCTCTCTGTGTC 13237
QY 2487 CCTGCTGCTCCAGGGCTTCTCTTCCGGGCAGAAACAATAAAACCACTTGTGCCCACTG 2546
Db 13238 CCTGCTGCTCCAGGGCTTCTCTTCCGGGCAGAAACAATAAAACCACTTGTGCCCACTG 13297
QY 2547 AAAA 2550
Db 13298 AACA 13301

RESULT 5

US-10-660-763-3
; Sequence 3, Application US/10660763
; Publication No. US20040063130A1
; GENERAL INFORMATION:
; APPLICANT: GAN, Weinliu et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001183DIV
; CURRENT APPLICATION NUMBER: US/10/660,763
; CURRENT FILING DATE: 2003-09-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 15297
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-660-763-3

Query Match 13.6%; Score 362.4; DB 18; Length 15297;
Best Local Similarity 99.7%; Pred. No. 1.3e-46;
Matches 363; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2187 GGGGGCGCTGTGCCCTGCCAGAGCTGTGCTCCTGATGCCGTGTTCAGGCTCATGGAGCAG 2246
Db 12938 GGGGGCGCTGTGCCCTGCCAGAGCTGTGCTCCTGATGCCGTGTTCAGGCTCATGGAGCAG 12997
QY 2247 TGCTGGGCTATGAGCTGGGCGGCGGCTTACGACCATCTACAGGAGCTGCAG 2306
Db 12998 TGCTGGGCTATGAGCTGGGCGGCGGCTTACGACCATCTACAGGAGCTGCAG 13057
QY 2307 AGCATCCGAAAGCGGCATCGTGAGGCTGGGACCCCTTCTCAAGCTGTGTGGCTCTGCA 2366
Db 13058 AGCATCCGAAAGCGGCATCGTGAGGCTGGGACCCCTTCTCAAGCTGTGTGGCTCTGCA 13117
QY 2367 GGCCTAGGTGAGCTCTCAGCGGCTCCAGCTCATATGCTGACAGCTTTTCACAGTCTTG 2426
Db 13118 GGCCTAGGTGAGCTCTCAGCGGCTCCAGCTCATATGCTGACAGCTTTTCACAGTCTTG 13177
QY 2427 GACTCTGCGCACAGCATCCACATGCGGCGGAGATGACGCGCGGTCTCTCTGTGTC 2486
Db 13178 GACTCTGCGCACAGCATCCACATGCGGCGGAGATGACGCGCGGTCTCTCTGTGTC 13237
QY 2487 CCTGCTGCTCCAGGGCTTCTCTTCCGGGCAGAAACAATAAAACCACTTGTGCCCACTG 2546
Db 13238 CCTGCTGCTCCAGGGCTTCTCTTCCGGGCAGAAACAATAAAACCACTTGTGCCCACTG 13297
QY 2547 AAAA 2550
Db 13298 AACA 13301

RESULT 6

US-10-887-553A-240
; Sequence 240, Application US/10887553A
; Publication No. US20050085436A1
; GENERAL INFORMATION:
; APPLICANT: Garza, Dan
; APPLICANT: Li, Hao
; TITLE OF INVENTION: Method to treat conditions associated
; TITLE OF INVENTION: with insulin signalling dysregulation
; FILE REFERENCE: 4-33262
; CURRENT APPLICATION NUMBER: US/10/887,553A
; CURRENT FILING DATE: 2004-07-08
; PRIOR APPLICATION NUMBER: 60/485,883
; PRIOR FILING DATE: 2003-08-07
; NUMBER OF SEQ ID NOS: 1208
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 240
; LENGTH: 2950
; TYPE: DNA
; ORGANISM: human
US-10-887-553A-240

```
Query Match      12.3%; Score 328.8; DB 21; Length 2950;
Best Local Similarity 62.0%; Pred. No. 1.5e-41;
Matches 573; Conservative 0; Mismatches 342; Indels 9; Gaps 3;

Qy 1392 AACCTGTACCACTGGAAGGGAAGCTTCTCTAGCATTCTTTGCTCATCGACCACTA 1451
Db 1918 AACATGTATCGATTGCGAGGCACTGGGTTTTCAACACATTTCTCAACTTATAGATCATCAC 1977
Qy 1452 CTGAGCACCCAGCAGCCCTCACCAGAAGAGTGGTGTCTCTGACAGGCTGTGCC 1511
Db 1978 TATACAACAAACAGGTCACTCAAGAAATCAGGTGTAGTTCGTGAATCTTATCTCT 2037
Qy 1512 AAGGACAAG---TGGGTGCTGAACCATGAGACCTGGTGTGGTGAGCAGATTGGACGG 1568
Db 2038 AAGGACAAGAAATGGATTCTCAGTCATGAAGATGTATATTGGGAGAATTACTGGGCAAG 2097
Qy 1569 GGGAACTTTGGGAAGTGTTCAGCGGAGCCCTCGGCGGCAACACACCTGGTGGCGGTG 1628
Db 2098 GGAATTTTGGTGAAGTATATAAGG---GCACATTAAAGGATAAAACTTCTGTTGCTGTT 2154
Qy 1629 AAGTCTTGTGAGAGACGCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGCGAGG 1688
Db 2155 AAAACATGTAAGAGATCTTCTCAGGAATTGAAATAAAATTTTACAGAAGCCCAA 2214
Qy 1689 ATCTGAAGCAGTACAGCCACCCCAACATCGTGGTCTCATTTGGTGTCTGCACCCAGAAG 1748
Db 2215 ATTCTCAAGCAATATGATCATCCCAATATTGTCAAACTTATAGAGTTTGCACACAAGA 2274
Qy 1749 CAGCCCATCTACATCGTATGAGACCTTGTGAGGGGGGCGACTTCTGACCTTCTCGC 1808
Db 2275 CAGCCTGTCTACATCATTTAGAACTGTGTTTCAGGAGGTGATTTCTCACCTTCTGAGA 2334
Qy 1809 ACGGAGGGGGCCCTCGCGGTGAAGACTCTGCTGAGATGTTGGGGATGACAGTGTCT 1868
Db 2335 AGGAAGAAGATGAATTAACACTCAACAGTTAGTGAATTTTCATTAGACGTGCTGCT 2394
Qy 1869 GGATGAGTACCTGGAGAGCAAGTGTGCTATCCACCGGACCTGGCTGCTCGGAAGTGC 1928
Db 2395 GGTATGTTGATCTCGAGAGTAAATACTGTATACACAGGAGACCTTGTGCAAGAAACTGC 2454
Qy 1929 CTGCTGACAGAGAAGATGCTCAAGATCAGTGAATTTGGGATGTCGAGAGGAAGACC 1988
Db 2455 CTGCTAGGTGAAATAATGTTCTGAAATCAGTGAATTTGGAATGTCTCGTCAAGAGGAT 2514
Qy 1989 GATGGGTCTATGAGCTCAGGGGGCTCAGACAACTCCCGTGAAGTGGACCGCACCT 2048
Db 2515 GGTGGAGTGTATCTCTTC---TGGCTTAAGCAGATTTCCATTAAATGACAGCACCG 2571
Qy 2049 GAGCCCTTAACTACGGCCGCTACTCTCTCCGAAAGCGACGTGTGGAGCTTTGGCATCTTG 2108
Db 2572 GAAGCTCTTAATTATGGAGATACAGTTTACAGAGAGTGACGTGTGGAGCTTTGGCATCTT 2631
Qy 2109 CTCTGGAGACCTTCAGCTGGGGGCTCCCTCTATCCAACTCAGCAATCAGCAGACA 2168
Db 2632 CTCTGGAGACCTTCAGCTTAGGGGTTTGTCCGTACCTTGAATGACAAATCAGCAAGCA 2691
Qy 2169 CGGAGTTTGGAGAGGGGGCGCTGCTGCCCTGCCAGAGCTGTGCTGATGCCGTG 2228
Db 2692 AGAGAGCAGTAGAAGAGGATACCGGATGTACCTCCCGACACTGTCAGAGGATATT 2751
Qy 2229 TTCAGGCTCATGAGCAGTGTCTGGGCCCTATGAGCTGGGAGCGGCCAGCTTCAGCAC 2288
Db 2752 TCCAAATCATGATGAGTGTGGGATTTAATAACTTGAATCGCCCTTAAGTTTCAGTGAA 2811
Qy 2289 ATCTACAGGAGCTGCAGAGATC 2312
Db 2812 CTTCAGAAAGAGCTCACTATCATC 2835
```

RESULT 7
US-09-918-995-1503
; Sequence 1503, Application US/09918995

Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1503
; LENGTH: 449
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(449)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-1503

```
Query Match      12.2%; Score 326.8; DB 10; Length 449;
Best Local Similarity 99.4%; Pred. No. 2.4e-41;
Matches 328; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1778 GCAGGGGGGGGCACTTCTGACCTTCTCCGACGAGGGGGGGCCCTGCGGGTGAAGAC 1837
Db 120 GCAGGGGGGGGCACTTCTGACCTTCTCCGACGAGGGGGGGGGCCCTGCGGGTGAAGAC 179
Qy 1838 TCTGTGTCAGATGGTGGGGATGCAGCTGTGTCATGAGTACCTGAGAGCAAGTGTCTG 1897
Db 180 TCTGTGTCAGATGGTGGGGATGCAGCTGTGTCATGAGTACCTGAGAGCAAGTGTCTG 239
Qy 1898 CATCCACCGGACCTGGCTCTCGGAACCTCGTGTGTCACAGAGAAATGTCTTGAAGAT 1957
Db 240 CATCCACCGGACCTGGCTCTCGGAACCTCGTGTGTCACAGAGAAATGTCTTGAAGAT 299
Qy 1958 CAGTGACTTTGGGATGTCCTCGAGAGGAGCCGATGGGGTCTATGCAGCCTCAGGGGGCT 2017
Db 300 CAGTGACTTTGGGATGTCCTCGAGAGGAGCCGATGGGGTCTATGCAGCCTCAGGGGGCT 359
Qy 2018 CAGCAAGTCCCGTGAAGTGGACCGCCTGAGGGCCCTTAACTACGGCGCTACTCCTC 2077
Db 360 CAGCAAGTCCCGTGAAGTGGACCGCCTGAGGGCCCTTAACTACGGCGCTACTCCTC 419
Qy 2078 CGAAGCGAGCTGTGAGCTTTGGCATCTT 2107
Db 420 CGAAGCGAGCTGTGAGCTTTGGCATCTT 449
```

RESULT 8
US-09-948-802-5
; Sequence 5, Application US/09948802
; Publication No. US20020172981A1
; GENERAL INFORMATION:
; APPLICANT: ROBISON, KEITH E.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE AND
; FILE REFERENCE: WNI-090
; CURRENT APPLICATION NUMBER: US/09/948,802
; PRIOR FILING DATE: 2001-09-07
; PRIOR APPLICATION NUMBER: 09/387,212
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: All occurrences of n indicate any nucleotide
US-09-948-802-5

Query Match 11.1%; Score 296.2; DB 9; Length 361;
Best Local Similarity 97.4%; Pred. No. 1.2e-36;
Matches 333; Conservative 0; Mismatches 4; Indels 5; Gaps 3;

QY 1684 CGAGGATCTGAAGCAGTACAGCACCACCCCAACATCGTGGTCTCATTTGGTGTCTGCACCC 1743
DB 20 CNAAGATCTGAAGCAGTACAGCACCACCCCAACATCGTGGTCTCATTTGGTGTCTGCACCC 79

QY 1744 AGAAGCAGCCCATCTACATCGTCTCATGGAGCTTGTGCAGGGGGCGGACTTCTTGACCTTCC 1803
DB 80 AGAAGCAGCCCATCTACATCGTCTCATGGAGCTTGTGCAGGGGGCGGACTTCTTGACCTTCC 139

QY 1804 TCCGACGAGGGGGCCCGCTGGGGTGAAGACTCTGTGCAGATGTTGGGGGATGCAG 1863
DB 140 TCCGACGAGGGGGCCCGCTGGGGTGAAGACTCTGTGCAGATGTTGGGGGATGCAG 199

QY 1864 CTGCTGGCAGGTACCTCGAGAGCAAGTGTGCATCCACCGGACCTGGCTCGCTCGGA 1923
DB 200 CTGCTGGCAGGTACCTCGAGAGCAAGTGTGCATCCACCGGACCTGGCTCGCTCGGA 259

QY 1924 ACTGCTGGTGCAGAGAGAAGTCTCTGAAG-ATCAGTGAATTT-GGGATGTCGCGAGA 1981
DB 260 ACTGCTGGTGCAGAGAGAAGTCTCTGAAGATCAGTGAATTTGGGGATGTCGCGAGA 319

QY 1982 GGAAGCC---GATGGGTCTATGCAGCCTCAGGGGGCCTCAG 2020
DB 320 GGAAGCCGATTGGGGTCTATGCAGCCTCAGGGGGCCTCAG 361

RESULT 9
US-10-121-925-5
; Sequence 5, Application US/10121925
; Publication No. US20030104505A1
; GENERAL INFORMATION:
; APPLICANT: ROBISON, KEITH E.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE AND
; FILE OF INVENTION: PHOSPHATASE HOMOLOGUES AND USES THEREFOR
; FILE REFERENCE: MNI-090
; CURRENT APPLICATION NUMBER: US/10/121,925
; PRIOR FILING DATE: 2002-04-12
; PRIOR APPLICATION NUMBER: US/09/948,802
; PRIOR FILING DATE: 2001-09-07
; PRIOR APPLICATION NUMBER: 09/387,212
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 5
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: All occurrences of n indicate any nucleotide
US-10-121-925-5

Query Match 11.1%; Score 296.2; DB 15; Length 361;
Best Local Similarity 97.4%; Pred. No. 1.2e-36;
Matches 333; Conservative 0; Mismatches 4; Indels 5; Gaps 3;

QY 1684 CGAGGATCTGAAGCAGTACAGCACCACCCCAACATCGTGGTCTCATTTGGTGTCTGCACCC 1743
DB 20 CNAAGATCTGAAGCAGTACAGCACCACCCCAACATCGTGGTCTCATTTGGTGTCTGCACCC 79

QY 1744 AGAAGCAGCCCATCTACATCGTCTCATGGAGCTTGTGCAGGGGGCGGACTTCTTGACCTTCC 1803
DB 80 AGAAGCAGCCCATCTACATCGTCTCATGGAGCTTGTGCAGGGGGCGGACTTCTTGACCTTCC 139

QY 1804 TCCGACGAGGGGGCCCGCTGGGGTGAAGACTCTGTGCAGATGTTGGGGGATGCAG 1863
DB 140 TCCGACGAGGGGGCCCGCTGGGGTGAAGACTCTGTGCAGATGTTGGGGGATGCAG 199

QY 1864 CTGCTGGCAGGTACCTCGAGAGCAAGTGTGCATCCACCGGACCTGGCTCGCTCGGA 1923

DB 200 CTGCTGGCATGGAGTACCTGGAGAGCAAGTGTCTCATCCACCGGACCTGGTGTCTCGGA 259
QY 1924 ACTGCTGGTGCAGAGAGAAGTGTCTCTGAAG-ATCAGTGAATTT-GGGATGTCGCGAGA 1981
DB 260 ACTGCTGGTGCAGAGAGAAGTGTCTCTGAAGATCAGTGAATTTGGGGATGTCGCGAGA 319

QY 1982 GGAAGCC---GATGGGTCTATGCAGCCTCAGGGGGCCTCAG 2020
DB 320 GGAAGCCGATTGGGGTCTATGCAGCCTCAGGGGGCCTCAG 361

RESULT 10
US-10-280-576-19
; Sequence 19, Application US/10280576
; Publication No. US20040044405A1
; GENERAL INFORMATION:
; APPLICANT: Wolfe, Matthew R.
; TITLE OF INVENTION: VASCULAR STENT OR GRAFT COATED OR IMPREGNATED WITH PROTEIN
; FILE REFERENCE: 09820.189
; CURRENT APPLICATION NUMBER: US/10/280,576
; CURRENT FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 60/343,732
; PRIOR FILING DATE: 2001-10-25
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 19
; LENGTH: 1779
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-10-280-576-19

Query Match 10.2%; Score 271.6; DB 18; Length 1779;
Best Local Similarity 57.0%; Pred. No. 9.3e-33;
Matches 518; Conservative 0; Mismatches 384; Indels 6; Gaps 1;

QY 1398 TACCGACTCGAAGGGGAGGCTTCTCAGCATCTTCTGCTCATCGACCACTACTGAGC 1457
DB 844 TTCCGGTTCGAGGGACCACCATTTGCCAGCATCCAGGAGCTGATCATGATCAGTATCAC 903

QY 1458 ACCAGCAGCCCTCCACCAAGAGAGTGTGTCTCTGCACAGGGCTGTGCCAAGGAC 1517
DB 904 TCGGAATTCAGAGTGCAGCGTGAATTCGGGAGCCATCTCCGACGACCCGTTTGCCTGGAG 963

QY 1518 AAGTGGTGTGAAACCATGAGGACCTGGTGTGGGTGAGCAGATGAGCGGGGGAATTT 1577
DB 964 CGCTGGGAGCTGAGCAACGATGATGTGTCTCTGAGAGGATGTTGGGGGAAATTT 1023

QY 1578 GCGGAAGTGTTCAGCGGACCGCTCGAGCGGACCAACACCCCTGGTGGCGGTGAAGTCTTGT 1637
DB 1024 GGGGATGTCTAAGGCGCAACTGAAGTCCACCAACTGGATGTGGCTGTCAAAACCTGT 1083

QY 1638 CGAGAGACGCTCCACCTGACCTCAAGGCCAAGTTTCTCAGGAAGCGAGGATCTCTGAAG 1697
DB 1084 CGAATGACCTCGCCGACGAAAGAGCGTAAATTCCTACAGGAAGGGCGCATCTCTCAAG 1143

QY 1698 CAGTACAGCACCACCAACATCGTCTCATTTGGTGTCTGCACCCAGAGAGAGCCCATC 1757
DB 1144 CAATACGATCATCAAAATATCGTAAATTTGATTTGGGATTTGTGTGAGAGAGAGCCATC 1203

QY 1758 TACATCGTCTATGAGGCTTGTGCAGGGGGGCGGACTTCTGACCTTCTCTCCGACGAGGGG 1817
DB 1204 ATGATTTGATGAAATTTGGTGTCTCGTGGTGTCTTAACTTTTACCAAGAACTCC 1263

QY 1818 GCCCGCTCGGGGTGAAGACTCTGTGCAGATGTTGGGGGATGCAGTGTGCGATCGAG 1877
DB 1264 AATGGCTCCACCTCGCCCAACAAATGGGATGTGCAGAGATGCGGGCGGCGGATCCGA 1323

QY 1878 TACCTGAGAGCAAGTCTGCATCCACCGGAGACTGGCTGTCTCGGAACTGCTGTTGACA 1937
DB 1324 TATCTGAGTCCAAAACACTGCATTCATCGCATCTGCGGGCGGTAATTTGCTCGTTGAC 1383

QY 1938 GAGAAGAAATGTCTGAAAGATCAGTGAATTTGGGATGTTCCGAGAGGAGCCGATGGGGT 1997

Db 1384 TTGGAGCAGTGTGAAGATCTCCGATTCGGAATGCTCCGGAGAA-----GAGAA 1437
Qy 1998 TATGAGCCTCAGGGGGCTCAGCAAGTCCCGTGAAGTGGACCGCACCTTGAGGCCCTT 2057
Db 1438 TATATAGTTTCCGATGGCATGAACAATACTGTGAAGTGGACAGCTCCCGAGGCCCTG 1497
Qy 2058 AACTACGCCCTACTCTCCGAAGCGACGTGGAGCTTTGGCACTTCTCTGGAG 2117
Db 1498 AATTGGCAAGTACACTTCTGTGGCATGTGGTCTTATGGCATACTGATGGGAG 1557
Qy 2118 ACCTTCAGCTGGGGGCTCCCTCTATCCCAACCTCAGCAATCAGCAGACCGGAGTTT 2177
Db 1558 ATCTTCTCAAGGGGACACACCTTCTCCGATGACCACTCAGAGCCAGAGAGCGC 1617
Qy 2178 GTGAGAGAGGGGGCGCTCTCCCTGCCAGAGCTGTGTCTGTATGCCGTGTTTCAAGCTC 2237
Db 1618 ATCGATACGGGATATCGTATGCCAAGCGGAGAGCAGCCCGAGGAGATGTACCGACTG 1677
Qy 2238 ATGGAGCAGTCTGGGCTATAGCCTGGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2297
Db 1678 ATGCTCCAGTCTGGGCGAGCGCGCGAATCCCGACCGCATTTTCGATGAGATCTACAAT 1737
Qy 2298 GAGCTGCA 2305
Db 1738 GTGGTGA 1745

RESULT 11

US-10-101-510-525
; Sequence 525, Application US/10101510
; Publication No. US20030148295A1
; GENERAL INFORMATION:
; APPLICANT: WAN, JACKSON
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
; FILE REFERENCE: 15117.0012
; CURRENT APPLICATION NUMBER: US/101,510
; CURRENT FILING DATE: 2002-03-20
; PRIOR APPLICATION NUMBER: 60/276,947
; PRIOR FILING DATE: 2001-03-20
; NUMBER OF SEQ ID NOS: 805
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 525
; LENGTH: 3875
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-101-510-525

Query Match 7.5%; Score 201.2; DB 15; Length 3875;

Best Local Similarity 54.9%; Pred. No. 7.2e-22;

Matches 423; Conservative 0; Mismatches 338; Indels 9; Gaps 1;

Qy 1522 GGGTGTGAACCATGAGGACCTGTGTGGGTGAGCAGATTTGACGGGGGAACTTTGGCG 1581
Db 1969 GGGAGCTTGATCCAGCGTGTGTGTGGTGTGACACTGTCTATGAGAGAGGAGTTTGGG 2028
Qy 1582 AAGTGTTCAGCGGACGCTCGGAGCC-----GACAAACACCTCTGTGGCGTGAAGT 1632
Db 2029 AAGTGTATGAGGAGGACCTGAGGCTCCCGACCGAGGACTGCAAGACTGTGCCATTAGA 2088
Qy 1633 CTGTGAGAGACGCTCCCACTGACCTCAAGGCCAAGTTTCTACAGAAAGCGAGGATCC 1692
Db 2089 CCTTAAAGACACATCCCGAGGTGGCAGTGTGGAACTTCTTCGAGAGGCAACTATCA 2148
Qy 1693 TGAAGCAGTACAGCCACCCCAACATCGTGTCTCATTTGTTGTGACCCCGAAGCAGC 1752
Db 2149 TGGGCGAGTTAGCCACCCCGCATTTCTGATCTGGAAGGCGTGTCAAAAGCGAAGC 2208
Qy 1753 CCATCTACATCGTTCATGAGCTTGTGACGGGGGCGACTTCTGACCTTCTCCCGCAGG 1812
Db 2209 CGATCATGATCATACAGAAATTTATGGAGATGAGCGCCCTGGATCCCTCTGAGGAGC 2268
Qy 1813 AGGGGGCCCGCTGCGGGTGAAGACTCTGTGTCAGATGTTGGGGGATGCACTGCTCGCA 1872

Db 2269 GGGAGGACCAAGCTGGTCCCTGGGACAGCTAGTGGCCATGTGCGAGGCAATAGCATCTGCA 2328
Qy 1873 TGGAGTACCTTGGAGAGCAAGTGTGATCCACCGGACCTGGGTCTCGGAACCTGCTGG 1932
Db 2329 TGAACCTACCTCAGTATCAATATGTCTCACCGGACCTGGCTGCCAGAAACATCTTGG 2388
Qy 1933 TGACAGAGAAGATGTCTCGAAGATCAGTGAATCTTTGGATGTCCCGAGAGAAAGCCGATG 1992
Db 2389 TGAATCAAAACCTGTGTGCAAGGTGTCTGACTTTGGCCTGACTCGCCTCTCGATGACT 2448
Qy 1993 GGGTCTATGAGCCTCAGGGGGCTCAGACAAGTCCCGTGAAGTGGACCGCACCTGAGG 2052
Db 2449 TTGATGGCACAATACGAAACCCAGGGAGAAAGATCCCTATCCGTGGACAGCCCTGAAG 2508
Qy 2053 CCCTTAACCTACGGCCGCTACTCTCCGAAAGCGACGTGTGGAGCTTTGGCATCTTGTCT 2112
Db 2509 CCATTGCCCATCGATCTTACCACAGCAGCAGATGTGTGGAGCTTTGGGATTTGTATG 2568
Qy 2113 GGGAGACCTTTCAGCCTGGGGGCTTCCCTTATCCCAACCTCAGCAATCAGACAGACAGG 2172
Db 2569 GGGAGGTGTCTGAGCTTTGGGACAAGCCTTATGGGAGATGAGCAATCAGAGGTTATGA 2628
Qy 2173 AGTTTGGAGAGGGGGCGCTGCGCTGCCCGCCAGAGCTGTCTCTGATGCCGTGTTCA 2232
Db 2629 AGAGCATTTGAGGATGGGTACCGGTTGCCCTCTCTGTGGACTGCCCTCTCTGTATG 2688
Qy 2233 GGCTCATGAGCAGTGTGGGCTTATGAGCTGGGAGCGGCCCGCCAGCTTC 2282
Db 2689 AGCTCATGAAGAACTGCTGGGCATATGACCGTCCCGCCGCCACACTTC 2738

RESULT 12

US-10-384-339C-1
; Sequence 1, Application US/10384339C
; Publication No. US20040175703A1
; GENERAL INFORMATION:
; APPLICANT: Kreutzer, Roland
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR INHIBITING EXPRESSION OF A TARGET GE
; FILE REFERENCE: 20200/2002
; CURRENT APPLICATION NUMBER: US/10/384,339C
; CURRENT FILING DATE: 2003-03-07
; PRIOR APPLICATION NUMBER: PCT/EP02/00152
; PRIOR FILING DATE: 2002-01-09
; PRIOR APPLICATION NUMBER: DE 10100586.5
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: DE 10155280.7
; PRIOR FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: DE 10158411.3
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: DE 10160151.4
; PRIOR FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 2955
; TYPE: DNA
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; TITLE: Eph A1
; PATENT DOCUMENT NUMBER: NM00532
US-10-384-339C-1

Query Match 7.4%; Score 198; DB 19; Length 2955;

Best Local Similarity 54.7%; Pred. No. 2.2e-21;

Matches 421; Conservative 0; Mismatches 340; Indels 9; Gaps 1;

Qy 1522 GGGTGTGAACCATGAGGACCTGTGTGGGTGAGCAGATTGACGGGGAACTTTGGCG 1581
Db 1874 GGGAGCTTGATCCAGCGTGGCTGATGTGTGACACTGTCTATAGGAGAGAGTTTGGG 1933
Qy 1582 AAGTGTTCAGCGGACGCTTCGAGCC-----GACAAACCTCTGTGGCGTGAAGT 1632

Db 1934 AAGTGTATCGAGGACCTCAGGCTCCCGACGACGACTGCAAGACTGTGGCCATTAAAGA 1993
Qy 1633 CTTGTTCGAGAGCGCTCCCACTGACCTCAAGCCCAAGTTTCTTACAGGAAGCGAGGATCC 1692
Db 1994 CCTTAAAGACACATCCCAAGGTGGCCAGTGGTGAACCTCTTCGAGAGGCAACTATCA 2053
Qy 1693 TGAAGCMGTACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 1752
Db 2054 TGGGCCAGTTTAGCCACCCGCAATTTCTGCATCTGGAAGGCGTCGTCAACAAGCGAAAGC 2113
Qy 1753 CCATCTACATCGTCATGAGGCTTTGTGAGGGGGCGACTTCTCTGACCTTCTCCGCAACG 1812
Db 2114 CGATCATGATCATACAGAAATTTATGAGAAATGAGCCCTGGATGCTTCTCTGAGGAGC 2173
Qy 1813 AGGGGGCCGCTCGGGTGAAGACTCTGCTGCAGATGTGTGGGGATGAGAGTGTCTGGCA 1872
Db 2174 GGGAGGACCACTGGTCCCTGGGCGAGCTAGTGGCCATGCTGCAGGGCATAGCATCTGGCA 2233
Qy 1873 TGGAGTACCTGGAGAGCAAGTGTGCATCCACGGGACCTGGCTGCTCGAACTGCTGG 1932
Db 2234 TGAATCAATCTAGTAATCAAAATTTATGTCACCGGGACCTGGCTGCGAGAAATCTTTGG 2293
Qy 1933 TGACAGAGAAAGATGTCTCAAGATCAGTCACTTTGGGATGTCCCGAGAGGAAGCGGATG 1992
Db 2294 TGAATCAAACTGTGCTGCAAGTGTCTGACTTTGGCCCTGACTCGCCTCTCGATGACT 2353
Qy 1993 GGGTCTATGAGCCTCAGGGGGCCCTCAGACAAAGTTCCTCGTGAAGTGAAGCCGACCTGAGG 2052
Db 2354 TTGATGGCACATACGAACCCAGGGAGGAAAGATCCCTATCCGTTGGACAGCCCTGAAG 2413
Qy 2053 CCCTTAACTAGGCGGCTACTCTCCGAAAGCGAGCTGTGGAGCTTTGGCATCTTGGCTCT 2112
Db 2414 CCAITGGCCCTCGGATCTTACACAGCAGCAGATGTGTGGAGCTTTGGATTTGTATGT 2473
Qy 2113 GGGAGACCTTCAGCCTCGGGGCTTCCCTATCCAACTCAGCAATCAGCAGACAGGG 2172
Db 2474 GGGAGGTGCTGAGCTTTGGGAGCAAGCTTATGGGAGATGAGCAATCAGGAGTTATGA 2533
Qy 2173 AGTTTGTGGAAGAGGGGGCGCTGCTGCTGCCAGAGCTGTGCTGTGATGCGGTGTCA 2232
Db 2534 AGAGCAITGAGGATGGGTACCGGTGCGCCCTCTGTTGGACTGCTGCGCCCTCTGTATG 2593
Qy 2233 GGCTCATGAGCACTGCTGGCCCTATGAGCCTGGGAGCGGCGCCAGCTTC 2282
Db 2594 AGCTCATGAAGAACTGCTGGGCATATGACCGTGGCCCGGCCACACTTC 2643

RESULT 13

US-09-967-768A-144
; Sequence 144, Application US/09967768A

; Patent No. US20020150877A1

; GENERAL INFORMATION:

; APPLICANT: Augustus, Meena

; TITLE OF INVENTION: Cancer

; FILE OF INVENTION: Sets

; FILE REFERENCE: 689290-72

; CURRENT APPLICATION NUMBER: US/09/967,768A

; CURRENT FILING DATE: 2001-09-28

; PRIOR APPLICATION NUMBER: US/60/236,109

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US/60/236,034

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US/60/236,111

; PRIOR FILING DATE: 2000-09-28

; NUMBER OF SEQ ID NOS: 325

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 144

; LENGTH: 3370

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-967-768A-144

Query Match 7.4%; Score 198; DB 9; Length 3370;

Best Local Similarity 54.7%; Pred. No. 2.2e-21;
Matches 421; Conservative 0; Mismatches 340; Indels 9; Gaps 1;
Qy 1522 GGGTGTCAACCAATAGAGACCTGTGTGGTGTGAGACAGATTGGAGGGGGAACTTTGGG 1581
Db 1967 GGGAGCTTGTATCCAGCGTGGCTGTATGGTGTGACACTGTCTATAGGAGAGAGAGTTGGGG 2026
Qy 1582 AAGTGTTCAGGGAGCGCTGCGAGCC-----GACAAACACCTGTGTGGGGTGAAGT 1632
Db 2027 AAGTGTATCGAGGGGACCTCTCAGGCTCCCGAGCCAGGACTGCAAGACTGTGGCCATTAGA 2086
Qy 1633 CTTGTTCGAGAGACGCTCCCACTGACCTCAAGGCCCAAGTTTCTACAGGAAGCGAGATCC 1692
Db 2087 CTTTAAAGACACATCCCGAGGTGGCAGTGGTGAACCTTCTCTCGAGAGGCAACTATCA 2146
Qy 1693 TGAAGCAGTACAGCCACCCCAACATCTGTGCTGTCTCATTTGGTGTCTGACCCAGAGACGAC 1752
Db 2147 TGGGCGAGTTTAGCCACCCGCAATTTCTGCATCTCGAAGGGCTCGTCAAAAGCGAAAGC 2206
Qy 1753 CCATCTACATCGTCATGAGCTTTGTGAGGGGGGAGCTTCTCTGACCTTCTCTCCGACCG 1812
Db 2207 CGATCATGATCATACAGAAATTTATGGAGATGAGCCCTGGATGCTTCTCTGAGGAGC 2266
Qy 1813 AGGGGGCCGCTCGGGGTGAAGACTCTCTCTCAGATGTTGGGATGTCCCGAGAGGAGCGGATG 1872
Db 2267 GGGAGGACCACTGGTCCCTGGGCGAGTAGTGGCCATGCTGCAGGGCATAGCATCTGGCA 2326
Qy 1873 TGGAGTACCTGAGAGCAAGTGTGCATCCACGGGACCTGGCTGCTCGGAACCTGCTGG 1932
Db 2327 TGAACCTACCTCAATATCACAATTTATGTCACCGGGACCTGGCTGCGAAGAACTCTTGG 2386
Qy 1933 TCACAGAGAAAGATGTCTTGAAGATCAGTCACTTTGGGATGTCCCGAGAGGAGCGGATG 1992
Db 2387 TGAATCAAACTGTGCTGCAAGGTGTCTGACTTTGGCTGACTCGCCTCTCTGGATGACT 2446
Qy 1993 GGGTCTATGACGCTCAGGGGGCTCAGACAAAGTCCCGCTGAAAGTGTGACCGGACCTGAGG 2052
Db 2447 TTGATGGCACATACGAACCCAGGGAGGAAAGATCCCTATCCGTTGGACAGCCCTGAAG 2506
Qy 2053 CCCTTAACTAGGCGGCTACTCTCCGAAAGCGAGCTGTGGAGCTTTGGCATCTTGTCTCT 2112
Db 2507 CCATTTGCCCATCGGATCTTACACAGCAGCAGCATGTGTGGAGCTTTGGATTTGTATGT 2566
Qy 2113 GGGAGACCTTCAGCCTGGGGGCTTCCCTATCCCACTCAGCAATCAGCAATCAGCAGACAGGG 2172
Db 2567 GGGAGGTGCTGAGCTTTGGGGACAAGCTTATGGGAGATGAGCAATCAGGAGGTTATGA 2626
Qy 2173 AGTTTGTGAGAGAGGGGGCGCTGCTGCTGCCAGAGCTGTGCTGTGATGCGGTGTCA 2232
Db 2627 AGAGCAITGAGGATGGGTACCGGTGCGCCCTCTCTGTGAGCTGCTGCGCCCTCTGTATG 2686
Qy 2233 GGCTCATGAGCAGTGTCTGGGCTATGAGCCTGGGAGCGGCGCCAGCTTC 2282
Db 2687 AGCTCATGAAGAACTGCTGGGCATATGACCGTGGCCCGGCCACACTTC 2736

RESULT 14

US-10-354-358-101

; Sequence 101, Application US/10354358

; Publication No. US20030157082A1

; GENERAL INFORMATION:

; APPLICANT: Millennium Pharmaceuticals, Inc

; APPLICANT: Hunter, John Joseph

; APPLICANT: MacBeth, Kyle J.

; APPLICANT: Teal, Fong-Ying

; APPLICANT: Lesoon, Andrea

; APPLICANT: Lightcap, Eric S.

; APPLICANT: Williamson, Mark

; APPLICANT: Rudolph-Owen, Laura A.

; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING

; TITLE OF INVENTION: CANCER USING 140, 1470, 1686, 2089, 2427, 3702, 5891, 6428,

; TITLE OF INVENTION: 7181, 7660, 25641, 69583, 8897, 1682, 17667, 9235,

; TITLE OF INVENTION: 3703, 14171, 10359, 1660, 1450, 18894, 2088, 32427, 2160,

;; TITLE OF INVENTION: 9252, 9389, 1642, 85269, 10297, 1584, 9525, 14124, 4469,
;; TITLE OF INVENTION: 8990, 2100, 9288, 64698, 10480, 20893, 33230, 1586, 9943,
;; TITLE OF INVENTION: 16334, 68862, 9011, 14031, 6178, 21225, 1420, 32236, 2099,
;; TITLE OF INVENTION: 2150, 26583, 2784, 8941, 9811, 27444, 50566 OR 66428 MOLECULES
;; FILE REFERENCE: MPT02-020P1RNONNIM
;; CURRENT APPLICATION NUMBER: US/10/354.358
;; CURRENT FILING DATE: 2003-01-30
;; PRIOR APPLICATION NUMBER: US 60/353,600
;; PRIOR FILING DATE: 2002-01-31
;; PRIOR APPLICATION NUMBER: US 60/364,517
;; PRIOR FILING DATE: 2002-03-15
;; PRIOR APPLICATION NUMBER: US 60/371,075
;; PRIOR FILING DATE: 2002-04-09
;; PRIOR APPLICATION NUMBER: US 60/371,507
;; PRIOR FILING DATE: 2002-04-10
;; PRIOR APPLICATION NUMBER: US 60/372,984
;; PRIOR FILING DATE: 2002-04-16
;; PRIOR APPLICATION NUMBER: US 60/374,194
;; PRIOR FILING DATE: 2002-04-19
;; PRIOR APPLICATION NUMBER: US 60/382,995
;; PRIOR FILING DATE: 2002-05-24
;; PRIOR APPLICATION NUMBER: US 60/385,023
;; PRIOR FILING DATE: 2002-05-31
;; PRIOR APPLICATION NUMBER: US 60/388,853
;; PRIOR FILING DATE: 2002-06-14
;; PRIOR APPLICATION NUMBER: US 60/389,395
;; PRIOR FILING DATE: 2002-06-17
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 122
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 101
;; LENGTH: 3370
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: (94)...(3048)
US-10-354-358-101

Query Match 7.4%; Score 198; DB 16; Length 3370;
Best Local Similarity 54.7%; Pred. No. 2.2e-21;
Matches 421; Conservative 0; Mismatches 340; Indels 9; Gaps 1;

QY 1522 GGGTGTGAACCATGAGAGACTGGTGTGGTGAGCAGATTGGACGGGGGAACTTTGGCG 1581
DB 1967 GGGAGCTTGATCCAGCGTGGCTGATGGTGACACTGTCATAGAGAAGAGAGTTGGGG 2026

QY 1582 AAGTGTTCAGCGGACCCCTCGAGCC-----GACAAACCCCTGGTGGCGGTGAAGT 1632
DB 2027 AAGTGTATCGAGGACCCCTCAGGCTCCCGAGCGAGCTGCAAGACTGTGGCCATTAGA 2086

QY 1633 CTGTGCGAGAGACCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGCGAGGATCC 1692
DB 2087 CCTTAAAGACACATCCCGAGTGGCCAGTGGTGGAACTTCTTCGAGAGCAACTATCA 2146

QY 1693 TGAAGCAGTACAGCCACCCCAACATCGTGGTCTCATTTGGTGTCTCGACCCAGAAAGCAGC 1752
DB 2147 TGGGCCAGTTTAGCCACCCCGCATATTTCTGATCTGGAAGCGCTCGTCACAAAGCGAAGC 2206

QY 1753 CCATCTACATCGTATGAGCTTGTGCAAGGGGGGCGACTTCTTGAAGTCTCCCGCAGCG 1812
DB 2327 TGAAGTACCTCAGTAATCACAATTTATGTCCACCGGGACCTGGCTGCCAGAAACATCTGG 2386

QY 1933 TGACAGAGAAGTAATGCTCTGAAGATCAGTACTTTGGATGTCCCGAGAGAACCCCATG 1992

DB 2387 TGAATCAAAACCTGTGCTGCTCAAGGTGTCTGACTTTGGCCCTGACTCGCTCTCGATGACT 2446
QY 1993 GGGTCTATGAGCAGCTCAGGGGGCTTCAGACAAAGTCCCGGTGAAGTGGACCGCACCTGAGG 2052
DB 2447 TTGATGGCACATACGAAACCCAGGGAGGAAAGATCCTATCCGTGTGACAGCCCTCGAAG 2506
QY 2053 CCCTTAACCTACGGCCGCTACTCTCCGAAAGCGACGTGTGGAGCTTTGGCATCTTGTCTCT 2112
DB 2507 CCATTGCCCATCGGATCTTACCACAGCCAGCGCATGTGTGAGCTTTGGGATTTGTGATGT 2566
QY 2113 GGGAGAGACCTTCAGCCTGGGGCCCTCCCTTATCCCAACCTCAGCAATCAGACAGACGGG 2172
DB 2567 GGGAGGTGTGAGCTTTGGGACAAAGCTTATGGGAGATGAGCAATCAGAGGTTATGA 2626
QY 2173 AGTTTGTGGAGAAAGGGGGCCGCTGCTCCCTGCCAGAGCTGTGTCTGTGATGCCGTGTCA 2232
DB 2627 AGAGCATTTGAGGATGGTACCGGTTGCCCTCTCTGTGGACTGCCCTGCCCTCTGTATG 2686
QY 2233 GGCTCATGAGCAGTGTGCGGCTATGAGCCTGGGAGCGGCCAGCTTC 2282
DB 2687 AGCTCATGAAGAACTGCTGGGCATATGACCGTGCCTCCCGCGGCACACTTC 2736

RESULT 15
US-10-210-120-19
; Sequence 19, Application US/10210120
; Publication No. US20030175736A1
; GENERAL INFORMATION:
; APPLICANT: Chinnaiyan, Arul M.
; APPLICANT: Rubin, Mark A.
; APPLICANT: Sreekumar, Arun
; TITLE OF INVENTION: Expression Profile of Prostate Cancer
; FILE REFERENCE: UM-07221
; CURRENT APPLICATION NUMBER: US/10/210,120
; CURRENT FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: US 60/309,581
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: US 60/334,468
; PRIOR FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 19
; LENGTH: 3370
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-210-120-19

Query Match 7.4%; Score 198; DB 16; Length 3370;
Best Local Similarity 54.7%; Pred. No. 2.2e-21;
Matches 421; Conservative 0; Mismatches 340; Indels 9; Gaps 1;

QY 1522 GGGTGTGAACCATGAGGACCTGGTGTGGTGAGCAGATTGGACGGGGGAACTTTGGCG 1581
DB 1967 GGGAGCTTGATCCAGCGTGGCTGATGGTGACACTGTCATAGAGAAGAGAGTTGGGG 2026

QY 1582 AAGTGTTCAGCGGACCCCTCGAGCC-----GACAAACCCCTGGTGGCGGTGAAGT 1632
DB 2027 AAGTGTATCGAGGACCCCTCAGGCTCCCGAGCGAGCTGCAAGACTGTGGCCATTAGA 2086

QY 1633 CTGTGCGAGAGACCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGCGAGGATCC 1692
DB 2087 CCTTAAAGACACATCCCGAGTGGCCAGTGGTGGAACTTCTTCGAGAGCAACTATCA 2146

QY 1693 TGAAGCAGTACAGCCACCCCAACATCGTGGTCTCATTTGGTGTCTCGACCCAGAAAGCAGC 1752
DB 2147 TGGGCCAGTTTAGCCACCCCGCATATTTCTGATCTGGAAGCGCTCGTCACAAAGCGAAGC 2206

QY 1753 CCATCTACATCGTATGAGCTTGTGCAAGGGGGGCGACTTCTTGAAGTCTCCCGCAGCG 1812
DB 2207 CGATCATGATCATCAGAATTTATGGAGATGACAGCCCTGGATGCTCTCTCGAGGAGC 2266

QY 1813 AGGGGCCCGCTCGGGTGAAGACTCTGCTGCAGATGTTGGGGGATGAGCTGCTGGCA 1872

Db	2267	GGGAGGACCAGCTGGTCCCTGGGCACTAGTGGCCATGTGCGAGGCATAGCATCTGGCA	2326
Qy	1873	TGGAGTACCTGGGAGAGCAAGTGTGTCATCCACCGGACCTGGCTGCTCGAAACTGCCTGG	1932
Db	2327	TGAACCTACCTCAGTATATCAATATATGTCCACCGGACCTGGCTGCCAGAAACATCTTGG	2386
Qy	1933	TGACAGAGAAAGATGTCCTGAAGATCAGTGAATTTGGGATGTCCCGAGAGGAGCGGATG	1992
Db	2387	TGAATCAAAACCTGTGTGTCGCAAGGTGTCTGACTTTGGCCTGACTCGCCTCCTGGATGACT	2446
Qy	1993	GGGTCTATGAGCCTCAGGGGGCCTCAGACAACTCCCGTGAAGTGGACCGCACCTGAGG	2052
Db	2447	TTGATGGCACATACGAACCCAGGGAGAAAGATCCCTATCCGTTGGACAGCCCTGAAG	2506
Qy	2053	CCCTTAACCTACGGCCGCTACTCTCCGAAAGCGACGTGTGGAGCTTTGGCATCTTGCTCT	2112
Db	2507	CCATTGCCCATCGATCTTCACCACAGCCAGCGATGTGTGGAGCTTTGGGATTGTGATGT	2566
Qy	2113	GGGAGACCTTCAGCCTGGGGCCTCCCTTATCCAACTCAGCAATCAGACACACGGG	2172
Db	2567	GGGAGGTGCTGAGCTTTGGGGACAAGCCTTATGGGAGATGAGCAATCAGGAGGTATGA	2626
Qy	2173	AGTTTGTGGAGAGGGGGCGCTCTGCCCTGCCAGAGCTGTCTCTGATGCCGTGTTC	2232
Db	2627	AGAGCATTGAGGATGGGTACCGTTGCCCTCTCTGTGGACTGCCCTGCCCTCTGTATG	2686
Qy	2233	GGCTCATGGAGCAGTGTGGGCTTATGAGCCTGGGCGAGCGGCCAGCTTC	2282
Db	2687	AGCTCATGAAGAACTGCTGGGCATATGACCGTGGCCCGCGGCCACACTTC	2736

Search completed: August 10, 2005, 10:13:09
Job time : 2389.73 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 9, 2005, 16:42:25 ; Search time 591.209 Seconds
(without alignments)
7400.775 Million cell updates/sec

Title: US-10-660-763-1
Perfect score: 2674
Sequence: 1 tccgggggtccgcaccgggccc.....aaaaaaaaaaaaaaaaaaaaa 2674

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PTUS_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2674	100.0	2674	3	US-09-817-180-1
2	2674	100.0	2674	4	US-10-003-295-1
3	362.4	13.6	15297	3	US-09-817-180-3
4	362.4	13.6	15297	4	US-10-003-295-3
5	296.2	11.1	361	3	US-09-387-212-5
6	296.2	11.1	361	3	US-09-948-802-5
7	223.4	8.4	19152	4	US-09-949-016-12110
8	223.4	8.4	19153	4	US-09-949-016-15795
9	198	7.4	3370	4	US-09-814-915A-82
10	185.4	6.9	3921	4	US-09-949-016-628
11	185.4	6.9	3921	4	US-09-949-016-2120
12	174.6	6.5	3386	4	US-09-949-016-5662
13	174.6	6.5	3416	2	US-08-357-642A-2
14	174.6	6.5	3416	2	US-08-460-626-2
15	174.6	6.5	3416	4	US-09-016-434A-1483
16	174.6	6.5	4089	4	US-09-300-958A-13
17	170.4	6.4	1611	1	US-07-820-011A-3
18	170.4	6.4	1611	4	US-09-860-473-3
19	170.4	6.4	1611	4	US-09-444-711A-1
20	170.4	6.4	1611	4	US-09-444-711A-3
21	170.4	6.4	1611	5	PCT-US93-00445-3
22	170.4	6.4	2455	4	US-09-949-016-4411
23	169.4	6.3	3623	1	US-08-306-691B-35
24	169.4	6.3	5434	4	US-09-949-016-927
25	169.4	6.3	5763	4	US-09-949-016-3759
26	169	6.3	3018	4	US-09-949-016-1097
27	169	6.3	3018	4	US-09-949-016-4749

28	169	6.3	4871	4	US-09-799-451-448	Sequence 448, Appl
29	168.2	6.3	2574	3	US-09-142-529-2	Sequence 2, Appli
30	168.2	6.3	2574	4	US-10-045-428A-2	Sequence 2, Appli
31	165.8	6.2	738	2	US-08-604-989A-8	Sequence 8, Appli
32	165.8	6.2	1398	2	US-08-604-989A-9	Sequence 9, Appli
33	165.8	6.2	1521	2	US-08-604-989A-10	Sequence 10, Appli
34	165.8	6.2	1713	3	US-09-741-154-1	Sequence 1, Appli
35	165.8	6.2	1942	2	US-08-604-989A-11	Sequence 11, Appli
36	165.8	6.2	2000	3	US-08-426-509A-1	Sequence 1, Appli
37	165.8	6.2	2000	4	US-08-232-545-1	Sequence 1, Appli
38	165.8	6.2	2000	5	PCT-US95-05008-1	Sequence 1, Appli
39	164.4	6.1	1467	4	US-09-579-182-2	Sequence 2, Appli
40	163.6	6.1	2449	4	US-09-949-016-1248	Sequence 1248, Ap
41	163.6	6.1	5993	3	US-09-383-630-1	Sequence 1, Appli
42	163.6	6.1	5993	3	US-09-383-630-2	Sequence 2, Appli
43	162.6	6.1	1548	3	US-09-099-053-1	Sequence 1, Appli
44	162.2	6.1	2440	1	US-08-160-861-2	Sequence 2, Appli
45	162.2	6.1	2442	1	US-08-542-363-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1

US-09-817-180-1
; Sequence 1, Application US/09817180
; Patent No. 6340584
; GENERAL INFORMATION:
; APPLICANT: GAN, Weiniu et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CLO01183
; CURRENT APPLICATION NUMBER: US/09/817,180
; CURRENT FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2674
; TYPE: DNA
; ORGANISM: Human
US-09-817-180-1

Query Match		100.0%;	Score 2674;	DB 3;	Length 2674;
Best Local Similarity		100.0%;	Pred. No. 0;		
Matches 2674;		Conservative	0;	Mismatches	0; Gaps 0;
Qy	1	TCCGGGGTCCGCACCCGGGCTGAGTCGGTCCGAGGCGCTCCAGGAGCAGCTGCCCGTGC	60		
Db	1	TCCGGGGTCCGCACCCGGGCTGAGTCGGTCCGAGGCGCTCCAGGAGCAGCTGCCCGTGC	60		
Qy	61	GGAACAGCACTATGGGCTTCTCTTCTGAGCTGTGCAGCCCCCAGGGCCACGGGTCTCTGC	120		
Db	61	GGAACAGCACTATGGGCTTCTCTTCTGAGCTGTGCAGCCCCCAGGGCCACGGGTCTCTGC	120		
Qy	121	AGCAATGCGAGGCGCGAGCTTCGTCTACTGAGGGGATGAGAAATGGATGCCCGCAGC	180		
Db	121	AGCAATGCGAGGCGCGAGCTTCGTCTACTGAGGGGATGAGAAATGGATGCCCGCAGC	180		
Qy	181	GGGTCAAGAGTGACAGGAGTATGAGGAGTCTTCCACACATGTCCCTGCGAGCAGTG	240		
Db	181	GGGTCAAGAGTGACAGGAGTATGAGGAGTCTTCCACACATGTCCCTGCGAGCAGTG	240		
Qy	241	GGGGCCAGAGCGGGGCGCATCAGCCCTGACAGCCCCATCAGTCAGTCCTTGGGCTGAGATCA	300		
Db	241	GGGGCCAGAGCGGGGCGCATCAGCCCTGACAGCCCCATCAGTCAGTCCTTGGGCTGAGATCA	300		
Qy	301	CCAGCCAAACTGAGGGCGCTGAGCGCGTCTGTCGGGAGCAGCAGAGGATCTGAACCTCAG	360		
Db	301	CCAGCCAAACTGAGGGCGCTGAGCGCGTCTGTCGGGAGCAGCAGAGGATCTGAACCTCAG	360		
Qy	361	GGCCCTTGAAGAGTCTGAGCGTCTCATTCGGGAGCGGAGCAGCTTCGGAACACCTACA	420		

Db	361	GGCCCTTGAGCAAGCTGAGCGTCTCATCTCGGGAAACGGCAGCAGCTTTCGCAAGACCTCA	CA	420
Qy	421	GCAGCAGTGGCAGCAGCTGCAGCAGAGCTCACCAAGACCCACAGCCAGGACATTGAGA	480	
Db	421	GCAGCAGTGGCAGCAGCTGCAGCAGAGCTCACCAAGACCCACAGCCAGGACATTGAGA	480	
Qy	481	AGCTGAAGAGCAGTACCGAGCTTGGCAGGGACAGTGCCCAAGCGAAGCGCAAGTACC	540	
Db	481	AGCTGAAGAGCAGTACCGAGCTTGGCAGGGACAGTGCCCAAGCGAAGCGCAAGTACC	540	
Qy	541	AGGAGGCCAGCAAGACAAGACCGTGCACAAGGCGCAAGGACAAATGTGTGCGCAGCGCTGT	600	
Db	541	AGGAGGCCAGCAAGACAAGACCGTGCACAAGGCGCAAGGACAAATGTGTGCGCAGCGCTGT	600	
Qy	601	GGAAAGCTTTTGTCACCAACACCGCTATGTGTGGCGCTGCGGGCTGCGCAGCTACACC	660	
Db	601	GGAAAGCTTTTGTCACCAACACCGCTATGTGTGGCGCTGCGGGCTGCGCAGCTACACC	660	
Qy	661	ACGAGCACCAACCAAGCTCTGTCGCCCGCCCTGCTGCGGTCACTGCAAGACCTGCACG	720	
Db	661	ACGAGCACCAACCAAGCTCTGTCGCCCGCCCTGCTGCGGTCACTGCAAGACCTGCACG	720	
Qy	721	AGGAGATGGCTTGCATCCTGAAGAGAGATCCTGCAAGGAATACCTGGAGATPAGCAGCTGG	780	
Db	721	AGGAGATGGCTTGCATCCTGAAGAGAGATCCTGCAAGGAATACCTGGAGATPAGCAGCTGG	780	
Qy	781	TGCAGGATGAGTGGTGCCATTACACGGGAGATGCGTCAGCTGCTGCCCGCATCCAGC	840	
Db	781	TGCAGGATGAGTGGTGCCATTACACGGGAGATGCGTCAGCTGCTGCCCGCATCCAGC	840	
Qy	841	CTGAGGCTGAGTACCAAGGCTTCTCTGGGACAGTATGGGTCCGCACTGACGTCCCAACCT	900	
Db	841	CTGAGGCTGAGTACCAAGGCTTCTCTGGGACAGTATGGGTCCGCACTGACGTCCCAACCT	900	
Qy	901	GTGTCACGTTTCGATGATCACTGCTGAGGAGGTGAACCGCTGGAGCCTTGGGGAGCTCC	960	
Db	901	GTGTCACGTTTCGATGATCACTGCTGAGGAGGTGAACCGCTGGAGCCTTGGGGAGCTCC	960	
Qy	961	AGCTGAACGAGCTGACTGTGAGAGCGTGCAGCACACGCTGACCTCAGTGACAGATGAGC	1020	
Db	961	AGCTGAACGAGCTGACTGTGAGAGCGTGCAGCACACGCTGACCTCAGTGACAGATGAGC	1020	
Qy	1021	TGGCTGTGGCCAACGAGATGTGTTCAGGCGGCAAGAGATGGTTACGCGAGCTGCAACAGG	1080	
Db	1021	TGGCTGTGGCCAACGAGATGTGTTCAGGCGGCAAGAGATGGTTACGCGAGCTGCAACAGG	1080	
Qy	1081	AGCTCCGAGTACAGAGAGAACACCAACCCCGGAGCGGCTCAGCTGCTGGGCAAGA	1140	
Db	1081	AGCTCCGAGTACAGAGAGAACACCAACCCCGGAGCGGCTCAGCTGCTGGGCAAGA	1140	
Qy	1141	GGCAAGTGTCTCAAGAACACTGCAGGGGCTGCAGGTAGCGCTGTGCAGCCAGGCCAAGC	1200	
Db	1141	GGCAAGTGTCTCAAGAACACTGCAGGGGCTGCAGGTAGCGCTGTGCAGCCAGGCCAAGC	1200	
Qy	1201	TGCAGGCCAGCAGAGTGTCTGCAGACCAAGCTGGAGCACTGGGCGCCCGGGAGGCCCC	1260	
Db	1201	TGCAGGCCAGCAGAGTGTCTGCAGACCAAGCTGGAGCACTGGGCGCCCGGGAGGCCCC	1260	
Qy	1261	CGCCTGTGTGCTCTCTGAGGATGACCGCCACTTCAACGTCGCTCTCGGAGCAGGAGCGAG	1320	
Db	1261	CGCCTGTGTGCTCTCTGAGGATGACCGCCACTTCAACGTCGCTCTCGGAGCAGGAGCGAG	1320	
Qy	1321	AGGGGGAGAGNACCCAGCTGGAGATTCCTTAAGAGCCACATCTCAGGATCTTCGCGC	1380	
Db	1321	AGGGGGAGAGNACCCAGCTGGAGATTCCTTAAGAGCCACATCTCAGGATCTTCGCGC	1380	
Qy	1381	CCAAGTTCTCGAACTGTACCGACTGGAAGGGGAAGGCTTTCCTAGCATTCCTTTGTCTCA	1440	
Db	1381	CCAAGTTCTCGAACTGTACCGACTGGAAGGGGAAGGCTTTCCTAGCATTCCTTTGTCTCA	1440	
Qy	1441	TCGACCACTACTGAGACCCAGCAGCCCTTCAACGAAGAGTGGTGTCTCTCTGCACA	1500	
Db	1441	TCGACCACTACTGAGACCCAGCAGCCCTTCAACGAAGAGTGGTGTCTCTCTGCACA	1500	

Qy	1501	GGGCTGTGCCAAGGACAAGTGGGTCTGAA	CCATGAGGACCTGGTGTGGGTGAGCAGA	1560
Db	1501	GGGCTGTGCCAAGGACAAGTGGGTCTGAA	CCATGAGGACCTGGTGTGGGTGAGCAGA	1560
Qy	1561	TTGGACGGGGGAACCTTTGGCGAAGTGT	TACGGGACCGCTTGGAGCCGACAACACCCCTGG	1620
Db	1561	TTGGACGGGGGAACCTTTGGCGAAGTGT	TACGGGACCGCTTGGAGCCGACAACACCCCTGG	1620
Qy	1621	TGGCGGTGAAGTCTTGTTCGAGAGACGCT	CCACCTGACCTCAAGGCCAAGTTTCTACAGG	1680
Db	1621	TGGCGGTGAAGTCTTGTTCGAGAGACGCT	CCACCTGACCTCAAGGCCAAGTTTCTACAGG	1680
Qy	1681	AAGCGAGATCCTGAAGACGATACAGCACCC	CAACATCGTGGCTCTCATTTGGTGTCTGCA	1740
Db	1681	AAGCGAGATCCTGAAGACGATACAGCACCC	CAACATCGTGGCTCTCATTTGGTGTCTGCA	1740
Qy	1741	CCCAGAAAGCAGCCATCTTACATCGTATG	AGAGTGTGTGCAGGGGGGCGACTTCTCTGACCT	1800
Db	1741	CCCAGAAAGCAGCCATCTTACATCGTATG	AGAGTGTGTGTGCAGGGGGGCGACTTCTCTGACCT	1800
Qy	1801	TCCTCCGACGAGGGGGCCCGCTCGGGGT	TGAAGACTCTGTGCAGATGTGTGGGGGATG	1860
Db	1801	TCCTCCGACGAGGGGGCCCGCTCGGGGT	TGAAGACTCTGTGCAGATGTGTGGGGGATG	1860
Qy	1861	CAGCTGTGTCATGGAGTACTCTGGAGAGCA	AGTGTCTGCATCCACGGGACCTGGCTGTCTC	1920
Db	1861	CAGCTGTGTCATGGAGTACTCTGGAGAGCA	AGTGTCTGCATCCACGGGACCTGGCTGTCTC	1920
Qy	1921	GGAACTCCTGGTGCACAGAGAAGATGCTC	TGAAGATCAGTGTGTGGATGTCCCGGAG	1980
Db	1921	GGAACTCCTGGTGCACAGAGAAGATGCTC	TGAAGATCAGTGTGTGGATGTCCCGGAG	1980
Qy	1981	AGGAAGCCGATGGGGTCTATGACGCTTCA	GGGGGCCTCAGACAAGTCCCGTGAAGTGA	2040
Db	1981	AGGAAGCCGATGGGGTCTATGACGCTTCA	GGGGGCCTCAGACAAGTCCCGTGAAGTGA	2040
Qy	2041	CCGCACCTGAGGCCCTTAACTACGGCGCT	TACTCCTCCGAAGCGACGTGTGAGGCTTTG	2100
Db	2041	CCGCACCTGAGGCCCTTAACTACGGCGCT	TACTCCTCCGAAGCGACGTGTGAGGCTTTG	2100
Qy	2101	GCATCTTTGCTCTGGGAGACCTTCAGCCT	GTGGGGCCTCCCTTATCCCAACCTCAGCAATC	2160
Db	2101	GCATCTTTGCTCTGGGAGACCTTCAGCCT	GTGGGGCCTCCCTTATCCCAACCTCAGCAATC	2160
Qy	2161	AGCAGACACGGGAGTTTGTGAGAGAGGGG	GGCGTCTGCCCTCCAGAGCTGTGTCTTG	2220
Db	2161	AGCAGACACGGGAGTTTGTGAGAGAGGGG	GGCGTCTGCCCTCCAGAGCTGTGTCTTG	2220
Qy	2221	ATGCCGTGTTTCAAGCTCATGAGCAGTGT	CTGGGCTTATGAGCCTTGGGCGCCGACGT	2280
Db	2221	ATGCCGTGTTTCAAGCTCATGAGCAGTGT	CTGGGCTTATGAGCCTTGGGCGCCGACGT	2280
Qy	2281	TCAGCACCATCTACAGAGCTGCAGAGCAT	TCGAAAGCGGCATCGGTGAGGCTGGGACC	2340
Db	2281	TCAGCACCATCTACAGAGCTGCAGAGCAT	TCGAAAGCGGCATCGGTGAGGCTGGGACC	2340
Qy	2341	CCCTTCTCAAGCTGGTGGCTCTTCAGGCT	TAGTGAGCTTCTCTCAGCGGCTCCAGCTCA	2400
Db	2341	CCCTTCTCAAGCTGGTGGCTCTTCAGGCT	TAGTGAGCTTCTCTCAGCGGCTCCAGCTCA	2400
Qy	2401	TATGCTGACAGCTTTCACAGTCTTGACT	CTCTGCGCACCGACATCCACATGCGCGGAGG	2460
Db	2401	TATGCTGACAGCTTTCACAGTCTTGACT	CTCTGCGCACCGACATCCACATGCGCGGAGG	2460
Qy	2461	ATGCAGGCGCGTGTCTCTCTGTCTCTCT	GTCTGTGTCAGGGCTTCTCTTCCGGGCGAGA	2520
Db	2461	ATGCAGGCGCGTGTCTCTCTGTCTCTCT	GTCTGTGTCAGGGCTTCTCTTCCGGGCGAGA	2520
Qy	2521	AACAATAAAACCACTTGTGCCCATCTGA	AAAAAATAAAAAAATAAAAAAATAAAAAA	2580
Db	2521	AACAATAAAACCACTTGTGCCCATCTGA	AAAAAATAAAAAAATAAAAAAATAAAAAA	2580

[illegible]

RESULT 2

US-10-003-295-1

US-10-003-233-1
: Sequence 1, Application US/10003295

; Patent No. 6686187

GENERAL INFORMATION:

; APPLICANT: GAN, Weinju et al.

TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC

;
;
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES

; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: CL001183DIV

; CURRENT APPLICATION NUMBER: US/10/003,295

; CURRENT FILING DATE: 2001-12-06

; NUMBER OF SEQ ID NOS: 4

```

; SOFTWARE: FastSEQ for Windows Version 4.0

```

; SEQ ID NO 1

; LENGTH: 2674

; TYPE: DNA
ORGANISM:

; ORGANISM: Homo sapiens
 NC_10_003_205-1

US-10-003-295-1

Query Match 100.0%: Score 2674: DB 4: Length 2674:

Query Match: 100.0%; SCORE 20/47
Best Local Similarity 100.0%; Pred. No. 0:
Best Local Similarity 100.0%; Pred. No. 0:

Matches 2674: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

Qy 1 TCCGGGGTCCGCACCGGGCTCAGTCGGTCCGAGGCCGTCCAGGAGCAGCTGCCCGTGC 60

Qy 61 GGAACAGCACTATGGGCTTCTCTTCTGAGCTGTGACGCCCCACGGGCCACGGGGTCTCTGC 120

QY 121 AGCAATGCAGGAGGCCGAGCTTCGTCTACTGGAGGSCATGAGAAAGTGGATGCCCCAGC 180

181 CGCTCAAGAGCTGCACGGGAGCATGCGAGGACTGCTTACCA CATGTCCTGACAGGACAGTG 240

DB 181 GGGTCAGGAGTGCACAGGGGATATGCAGGACAGTCTTACACATGTCTCCCTGCAGGACAGTG 240

Db 241 GGGGCCAGAGCCGGGCCATCAGCCCCTGACAGCCCCCATCAGTCAGTCTGGGCTGAGATCA 300

Db 301 CCAGCCAACTGAGGGCCTGAGCCGCTTGTCGGCAGCACGCAGAGGATCTGAACTCAG 360

Db 361 GGCCCTGAGCAAGCTGACCTGCTCATCCGGGAACGGCAGCAGCTTCGCAAGACCTACA 420

Db 421 GCGAGCAGTGGCAGCAGCTGCAGCAGGAGCTCACCAAGACCCACAGCCAGGACATTGAGA 480

481 AGCTGACAGCCACTACCGAGCTCTGGCAGCGGACAGTCCCAAGCCAAAGCCAAAGTACC 540

Qy	601	GGAAAGCTCTTTGTCTACCAACAACCGCTATGTGTCTGGCGTGGCGGTGCGCAGCTACACC	660
Db	601	GGAAAGCTCTTTGTCTACCAACAACCGCTATGTGTCTGGCGTGGCGGTGCGCAGCTACACC	660
Qy	661	ACCAGCACCAACCAACGCTCTCTGTCGCCGCTGTCTGCGGTCTACATGCAAGACTGCAAG	720
Db	661	ACACAGCACCAACCAACGCTCTCTGTCGCCGCTGTCTGCGGTCTACATGCAAGACTGCAAG	720
Qy	721	AGGAGATGGCTTGCATCTCTGAAGGAGATCTTCAGGAATACCTGGAGATTAGCAGCCTGG	780
Db	721	AGGAGATGGCTTGCATCTCTGAAGGAGATCTTCAGGAATACCTGGAGATTAGCAGCCTGG	780
Qy	781	TGCAGGATAGGTGGGCCATTCAACGGGAGATGCGCTGCAGCTGCTGCCCGCATTCAGC	840
Db	781	TGCAGGATAGGTGGGCCATTCAACGGGAGATGCGCTGCAGCTGCTGCCCGCATTCAGC	840
Qy	841	CTGAGGCTGAGTACCAAGGCTTCTTCGACAGATGCGTCCGACCTGACGTCCACCCCT	900
Db	841	CTGAGGCTGAGTACCAAGGCTTCTTCGACAGATGCGTCCGACCTGACGTCCACCCCT	900
Qy	901	GTGTCACTGTTGATGATCACTCTTCAGAGAGGTGAACCGCTGGAGCCTGGGGAGCTCC	960
Db	901	GTGTCACTGTTGATGATCACTCTTCAGAGAGGTGAACCGCTGGAGCCTGGGGAGCTCC	960
Qy	961	AGCTGAACAGCTGACTGTGGAGAGCGTGCAGCACACGCTGACTCAGTGACAGATGAGC	1020
Db	961	AGCTGAACAGCTGACTGTGGAGAGCGTGCAGCACACGCTGACTCAGTGACAGATGAGC	1020
Qy	1021	TGCGTGTGGCCACCGAGATGGTGTTCAGGCGGAGGAGATGGTTACGACCTCCACAGG	1080
Db	1021	TGCGTGTGGCCACCGAGATGGTGTTCAGGCGGAGGAGATGGTTACGACCTCCACAGG	1080
Qy	1081	AGCTCCGGAATGAAGAGGAGAAACCCACCCCGGAGCGGTGCAGCTGCTGGGCAAGA	1140
Db	1081	AGCTCCGGAATGAAGAGGAGAAACCCACCCCGGAGCGGTGCAGCTGCTGGGCAAGA	1140
Qy	1141	GGCAAGTGTGCAAGAGACTGCAAGGGGTGCAGGTAGCGCTGTGCAGCAGGCCAAGC	1200
Db	1141	GGCAAGTGTGCAAGAGACTGCAAGGGGTGCAGGTAGCGCTGTGCAGCAGGCCAAGC	1200
Qy	1201	TGCAGGCCAGCAGGAGTTGCTGCAGACCAAGCTGGAGACCTGGGCGCCCGGCGAGCCCC	1260
Db	1201	TGCAGGCCAGCAGGAGTTGCTGCAGACCAAGCTGGAGACCTGGGCGCCCGGCGAGCCCC	1260
Qy	1261	CGCTGTGCTGCTCTGCAGGATGACCGCCACTCCACGTCGTCTCGGAGCAGGAGCGAG	1320
Db	1261	CGCTGTGCTGCTCTGCAGGATGACCGCCACTCCACGTCGTCTCGGAGCAGGAGCGAG	1320
Qy	1321	AGGGGGAAGGACACCCACGCTGGAGATCCTTAAGAGCCACATCTCAGGAATCTTCGCC	1380
Db	1321	AGGGGGAAGGACACCCACGCTGGAGATCCTTAAGAGCCACATCTCAGGAATCTTCGCC	1380
Qy	1381	CCAAAGTTCTCGAACCCTGTACCGACTGGAAGGGAAGGCTTCTTAGCATTTCTTTGCTCA	1440
Db	1381	CCAAAGTTCTCGAACCCTGTACCGACTGGAAGGGAAGGCTTCTTAGCATTTCTTTGCTCA	1440
Qy	1441	TCGACCACTACTGAGCACCCACGCGCTCACCAAGAGAGTGGTTGTTCTCTGCACA	1500
Db	1441	TCGACCACTACTGAGCACCCACGCGCTCACCAAGAGAGTGGTTGTTCTCTGCACA	1500
Qy	1501	GGGCTGTGCCCAAGCAAGTGGGTGCTGAACCATGAGGACCTGGTGTGGGTGAGCAGA	1560
Db	1501	GGGCTGTGCCCAAGCAAGTGGGTGCTGAACCATGAGGACCTGGTGTGGGTGAGCAGA	1560
Qy	1561	TTGGAACGGGGAACTTTGGCGAAGTGTTCAGCGGAACGCTGCAGCGCGCAACACCCCTGG	1620
Db	1561	TTGGAACGGGGAACTTTGGCGAAGTGTTCAGCGCGAAGTGTTCAGCGCGCGCAACACCCCTGG	1620
Qy	1621	TGCGGTGGAAGTCTGTTCAGAGACGCTCCACCTGACCTCAAGGGCAAGTTCTACAGG	1680
Db	1621	TGCGGTGGAAGTCTGTTCAGAGACGCTCCACCTGACCTCAAGGGCAAGTTCTACAGG	1680
Qy	1681	AAGCGAGGATCTCGAAGCAGTACAGGCCACCCCAACATCTGTCGCTCTCATTTGGTGTCTGCA	1740

Db 12938 GGGGGCGTCTGCCCTGCCAGAGCTGTCTCTGATGCCGTTCAGGCTCATGGAGCAG 12997
Qy 2247 TGCTGGCCCTATGAGCTGGGAGCGGCCAGCTTCAGACCATCTACCAAGAGCTGCAG 2306
Db 12998 TGCTGGCCCTATGAGCTGGGAGCGGCCAGCTTCAGACCATCTACCAAGAGCTGCAG 13057
Qy 2307 AGCATCCGAAGCGGCATCGGTGAGCTGGGAGCCCCCTTCTCAAGCTGTGGCTCTGCA 2366
Db 13058 AGCATCCGAAGCGGCATCGGTGAGCTGGGAGCCCCCTTCTCAAGCTGTGGCTCTGCA 13117
Qy 2367 GGCCTAGTGCAGCTCTCAGCGGCTCCAGCTCATATGCTGACAGCTTTCACAGTCCCTG 2426
Db 13118 GGCCTAGTGCAGCTCTCAGCGGCTCCAGCTCATATGCTGACAGCTTTCACAGTCCCTG 13177
Qy 2427 GACTCTCTGCCACAGCATCCACTGCGGCAGGATGACGCGCGTGTCTCTCTGTGTC 2486
Db 13178 GACTCTCTGCCACAGCATCCACTGCGGCAGGATGACGCGCGTGTCTCTCTGTGTC 13237
Qy 2487 CTTGCTGCTGCCAGGGCTTCTCTTTCGGGCAGAAAACCAATTAACCACTTGTGCCACTG 2546
Db 13238 CTTGCTGCTGCCAGGGCTTCTCTTTCGGGCAGAAAACCAATTAACCACTTGTGCCACTG 13297
Qy 2547 AAAA 2550
Db 13298 AAAA 13301

RESULT 5
US-09-387-212-5
; Sequence 5, Application US/09387212A
; Patent No. 6309849
; GENERAL INFORMATION:
; APPLICANT: ROBISON, KEITH E.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE AND
; FILE REFERENCE: MNI-090
; CURRENT APPLICATION NUMBER: US/09/387,212A
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: All occurrences of n indicate any nucleotide
US-09-387-212-5

Query Match 11.1%; Score 296.2; DB 3; Length 361;
Best Local Similarity 97.4%; Pred. No. 1.1e-43;
Matches 333; Conservative 0; Mismatches 4; Indels 5; Gaps 3;
Qy 1684 CGAGGATCTGAGCAGTACAGCACCACCCCAACATCGTGGCTCTCATTTGGTGTCTGCACCC 1743
Db 20 CNAGGATCTGAGCAGTACAGCACCACCCCAACATCGTGGCTCTCATTTGGTGTCTGCACCC 79
Qy 1744 AGAAGCAGCCCATCTACATCGTGGAGCAAGTGTGATCCACCGGACCTGGTGTCTCGGA 1803
Db 80 AGAAGCAGCCCATCTACATCGTGGAGCAAGTGTGATCCACCGGACCTGGTGTCTCGGA 139
Qy 1804 TCCGACGAGGGGGCCCGCTCGGGTGAAGACTCTGCTGCAGATGGTGGGGGATGCAG 1863
Db 140 TCCGACGAGGGGGCCCGCTCGGGTGAAGACTCTGCTGCAGATGGTGGGGGATGCAG 199
Qy 1864 CTGCTGGCATGGAGTACCTTGGAGCAAGTGTGATCCACCGGACCTGGTGTCTCGGA 1923
Db 200 CTGCTGGCATGGAGTACCTTGGAGCAAGTGTGATCCACCGGACCTGGTGTCTCGGA 259
Qy 1924 ACTGCTGTGTGACAGAGAAGATGTCTCTGAAG-ATCAGTACTTTT-GGGATGTCCCGAGA 1981
Db 260 ACTGCTGTGTGACAGAGAAGATGTCTCTGAAGATCAGTACTTTTGGGGATGTCCCGAGA 319

Qy 1982 GGAAGCC---GATGGGTCTATGACAGCTTCAGGGGCGCTCAG 2020
Db 320 GGAAGCCCGATTTGGGGGTCTATGACAGCTTCAGGGGCGCTCAG 361
RESULT 6
US-09-948-802-5
; Sequence 5, Application US/09948802
; Patent No. 6465232
; GENERAL INFORMATION:
; APPLICANT: ROBISON, KEITH E.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE AND
; FILE REFERENCE: MNI-090
; CURRENT APPLICATION NUMBER: US/09/948,802
; PRIOR FILING DATE: 2001-09-07
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: All occurrences of n indicate any nucleotide
US-09-948-802-5

Query Match 11.1%; Score 296.2; DB 3; Length 361;
Best Local Similarity 97.4%; Pred. No. 1.1e-43;
Matches 333; Conservative 0; Mismatches 4; Indels 5; Gaps 3;
Qy 1684 CGAGGATCTGAGCAGTACAGCACCACCCCAACATCGTGGCTCTCATTTGGTGTCTGCACCC 1743
Db 20 CNAGGATCTGAGCAGTACAGCACCACCCCAACATCGTGGCTCTCATTTGGTGTCTGCACCC 79
Qy 1744 AGAAGCAGCCCATCTACATCGTGGAGCAAGTGTGAGGGGGGAGCTTCTTGCACCTTCC 1803
Db 80 AGAAGCAGCCCATCTACATCGTGGAGCAAGTGTGAGGGGGGAGCTTCTTGCACCTTCC 139
Qy 1804 TCCGACGAGGGGGCCCGCTCGGGTGAAGACTCTGCTGCAGATGGTGGGGGATGCAG 1863
Db 140 TCCGACGAGGGGGCCCGCTCGGGTGAAGACTCTGCTGCAGATGGTGGGGGATGCAG 199
Qy 1864 CTGCTGGCATGGAGTACCTTGGAGCAAGTGTGATCCACCGGACCTGGTGTCTCGGA 1923
Db 200 CTGCTGGCATGGAGTACCTTGGAGCAAGTGTGATCCACCGGACCTGGTGTCTCGGA 259
Qy 1924 ACTGCTGTGTGACAGAGAAGATGTCTCTGAAG-ATCAGTACTTTT-GGGATGTCCCGAGA 1981
Db 260 ACTGCTGTGTGACAGAGAAGATGTCTCTGAAGATCAGTACTTTTGGGGATGTCCCGAGA 319
Qy 1982 GGAAGCC---GATGGGTCTATGACAGCTTCAGGGGCGCTCAG 2020
Db 320 GGAAGCCCGATTTGGGGGTCTATGACAGCTTCAGGGGCGCTCAG 361

RESULT 7
US-09-949-016-12110
; Sequence 12110, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12110
; LENGTH: 19152
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12110

Query Match
Best Local Similarity 8.4%; Score 223.4; DB 4; Length 19152;
Matches 224; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 60 CGAAGCAGCACTATGGGCTTCTTCTGAGCTGTGAGCCGCCAGGGCCACGGGGTCTGT 119
DB 18729 CAGAAGCAGCACTATGGGCTTCTTCTGAGCTGTGAGCCGCCAGGGCCACGGGGTCTGT 18788
QY 120 CAGCAAAATGCAAGGCGGAGCTTCTGCTACTGAGGGCATGAGAAAGTGATGGCCAG 179
DB 18789 CAGCAAAATGCAAGGCGGAGCTTCTGCTACTGAGGGCATGAGAAAGTGATGGCCAG 18848
QY 180 CGGTCAGAGTGACAGGAGTATGACGAGCTGTCTTACCAATGCTCCCTGACGACAGT 239
DB 18849 CGGTCAGAGTGACAGGAGTATGACGAGCTGTCTTACCAATGCTCCCTGACGACAGT 18908
QY 240 GGGGCCAGAGCCGGGCCATGAGCCCTGACAGCCCATCAGTCAGT 284
DB 18909 GGGGCCAGAGCCGGGCCATGAGCCCTGACAGCCCATCAGTCAGT 18953

RESULT 8

US-09-949-016-15795
; Sequence 15795, Application US/09949016
; Patent No. 6812339

GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15795

; TYPE: DNA

; ORGANISM: Human

US-09-949-016-15795

Query Match
Best Local Similarity 8.4%; Score 223.4; DB 4; Length 19153;
Matches 224; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 60 CGAAGCAGCACTATGGGCTTCTTCTGAGCTGTGAGCCGCCAGGGCCACGGGGTCTGT 119
DB 18729 CAGAAGCAGCACTATGGGCTTCTTCTGAGCTGTGAGCCGCCAGGGCCACGGGGTCTGT 18788
QY 120 CAGCAAAATGCAAGGCGGAGCTTCTGCTACTGAGGGCATGAGAAAGTGATGGCCAG 179
DB 18789 CAGCAAAATGCAAGGCGGAGCTTCTGCTACTGAGGGCATGAGAAAGTGATGGCCAG 18848
QY 180 CGGTCAGAGTGACAGGAGTATGACGAGCTGTCTTACCAATGCTCCCTGACGACAGT 239
DB 18849 CGGTCAGAGTGACAGGAGTATGACGAGCTGTCTTACCAATGCTCCCTGACGACAGT 18908
QY 240 GGGGCCAGAGCCGGGCCATGAGCCCTGACAGCCCATCAGTCAGT 284
DB 18909 GGGGCCAGAGCCGGGCCATGAGCCCTGACAGCCCATCAGTCAGT 18953

Db 18909 GGGGCCAGAGCCGGGCCATCAGCCCTGACAGCCCATCAGTCAGT 18953

RESULT 9

US-09-814-915A-82
; Sequence 82, Application US/09814915A
; Patent No. 6750015

GENERAL INFORMATION:

; APPLICANT: Horwitz, Kathryn
; APPLICANT: Richer, Jennifer
; TITLE OF INVENTION: Progesterone Receptor-Regulated Gene Expression and Methods Relate
; TITLE OF INVENTION: Thereco

; FILE REFERENCE: 2848-39

; CURRENT APPLICATION NUMBER: US/09/814,915A

; CURRENT FILING DATE: 2002-03-21

; PRIOR APPLICATION NUMBER: 60/214,870

; PRIOR FILING DATE: 2000-06-28

; NUMBER OF SEQ ID NOS: 108

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 82

; LENGTH: 3370

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-814-915A-82

Query Match
Best Local Similarity 7.4%; Score 198; DB 4; Length 3370;
Matches 421; Conservative 0; Mismatches 340; Indels 9; Gaps 1;

QY 1522 GGGTCTGAACCATGAGGACCTGGTGGTGGAGCAGATTGGACGGGGGAACTTTGGCG 1581
DB 1967 GGGAGCTTGATCCAGCGTGGCTGATGGTGACACTGTCATAGGAGAGAGATTGGGG 2026
QY 1582 AAGTGTTCAGCGGAGCGCTCGAGCC-----GACAAACACCCCTGGTGGCGGTGAAGT 1632
DB 2027 AAGTGTATCGAGGGACCCCTCAGGCTCCCGAGGAGCTGCAAGACTGTGSCCAATAGA 2086
QY 1633 CTGTGCGAGAGACGCTCCACCTCAGCTCAAGGCCAAGTTCTACAGGAGCGAGGATCC 1692
DB 2087 CCTTAAAGACACATCCCGAGTGGCAGTGGTGAACCTTCTTCGAGAGGCAACTATCA 2146
QY 1693 TGAAGCAGTACAGCCACCCCAACATCGTGGTCTCTCATTTGGTGTCTGCACCCAGAAAGCAGC 1752
DB 2147 TGGGCCAGTTTAGCCACCCGATATTTCTGCATCTGGAAGGCGTCTGCACAAAGGAAAGC 2206
QY 1753 CCATCTACATCGTCATGAGCTTGTGAGGGGGGCGACTTCTTGAACCTTCTTCCGCGCAGG 1812
DB 2207 CGATCATGATCATCAGAAATTTATGGAATTCAGCCCTGGATGCTTCTCTGAGGGAGC 2266
QY 1813 AGGGGCCCGCTGCGGGTGAAGACTCTGCTGAGAGTGGTGGGGATGCAAGCTGCTGGCA 1872
DB 2267 GGGAGGACCAAGCTGGTCCCTGGGAGCTAGTGCCCATGTGCGAGGGCATAGCATCTGGCA 2326
QY 1873 TGGAGTACCTGGAGAGCAAGTGTGATCCACCGGAGCTGGCTGTCTCGGAACCTGCTGG 1932
DB 2327 TGAATACCTCAGTAATACAAATTTATGTCACCGGAGCTGGCTGCGAGAAACATCTTG 2386
QY 1933 TGACAGAGAAGATGCTCTGAAGATCAGTACATTTGGGATGTCCCGAGAGGAAAGCGATG 1992
DB 2387 TGAATCAAAACCTGTGTCAGAGTGTGACATTTGGCCCTGACTCGCCCTCTGGATGACT 2446
QY 1993 GGGTCTATGAGCCTCAGGGGGCTTACAGCAAGTCCCGTGAAGTGGACCGCACTTGAGG 2052
DB 2447 TTGATGGCAGATACGAAACCCAGGGAGGAAAGATCCCTATCCGTTGCAAGCCCTTGAAG 2506
QY 2053 CCCTTAACCTACGCCCTACTCTCCGAAAGCGACGTGTGGAGCTTTGGGATCTTGGCTCT 2112
DB 2507 CCATTCGCCATCGATCTTCCACAGCAGCGAGTGTGGAGCTTTGGGATTTGATGT 2566
QY 2113 GGGAGACCTTTCAGCTGGGGGCTTCCCTATCCCAACCTCAGCAATCAGCAGACAGCGG 2172
DB 2567 GGGAGGTGCTGAGCTTTGGGGCAAGCCCTTATGGGAGATGAGCAATCAGGAGGTTATGA 2626

QY 2173 AGTTTGTGGAAGAGGGGGCGCTGCTGCCCTGCCAGAGCTGTGCTCTGTATGCCGTGTCTCA 2232
Db 2627 AGAGCATTTGAGGATGGGTACCGTGTGCCCTCTCTGTGACTGCCCTGCCCTCTGTATG 2686
QY 2233 GGCTCATGGAGCAGTGTGGGCTTATGAGCTGGGAGCGGCCACAGCTTC 2282
Db 2687 AGCTCATGAAGACTGCTGGGCATATGACCGTGGCCCGGCCACACTTC 2736

RESULT 10
US-09-949-016-628
; Sequence 628, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 628
; LENGTH: 3921
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-628

Query Match 6.9%; Score 185.4; DB 4; Length 3921;
Best Local Similarity 55.1%; Pred. No. 8.9e-24;
Matches 385; Conservative 0; Mismatches 311; Indels 3; Gaps 1;

QY 1617 CTGGTGGCGTGAAGTCTTGTGAGAGAGCGCTCCACCTGACCTCAAGGCCAAGTTTCTA 1676
Db 2037 CCGGTGGCCATCAAGCGCTGAAAGCGGCTACACAGAGAAGCAGCGAGTGGACTTCCTC 2096
QY 1677 CAGGAAGCGAGATCTTGAAGAGTACAGCCACCCCAACATCGTGGTCTCATTTGGTGTG 1736
Db 2097 GCGAGGCGCGCATCATGCGGCCAGTTTCAGCCACCAACATCATCGCTTAGAGGGCGTC 2156
QY 1737 TGCACCCAGAGCAGCGCCATCTACATGCTCATGAGCTTGTGAGGGGGCGACTTCCTG 1796
Db 2157 ATCTCAAAATACAAGCCCATGATGATCATCTAGTACATGAGAAATGGGGCCCTGGAC 2216
QY 1797 ACCTTCTCCGACCGAGGGGGCCCGCTCGGGGTGAAGACTCTGCTGCAGATGGTGGG 1856
Db 2217 AAGTCTCTCGGAGAAGGATGCGGAGTTTCAGCGTGTGAGCTGGGCGCATGCTGCGG 2276
QY 1917 GCTCGGAATCGCTGGTGAAGAGAAATGCTCTGAAGATCAGTGAATTTGGGATGTC 1976
Db 2337 GCCCGCAATCTCTGTCACAGCAACCTGGTGTGCAAGGTGTCTGACTTTGGCCCTGTCC 2396
QY 1977 CGAGAGGAAGCGATGGGGTCTATGACGCT---CAGGGGGCCCTCAGACAAGTCCCGTG 2033
Db 2397 CGCGTGTGGAGGACGACCCGAGGCCACCTACACACAGTGGCGGCAAGATCCCAATC 2456
QY 2034 AAGTGAACCGACCTGAGGCCCTTAAGTACGGCGGTACTCTCCGAAAGCGAGTGTGG 2093
Db 2457 CGCTGGAACCGCCCGGAGGCAATTTCTACCGAAGTTTCACTCTGCGAGCGAGTGTGG 2516
QY 2094 AGCTTTGGCATCTTGTCTCGGAGACCTTTCAGCTGGGGCCCTCCCTATCCCAACTC 2153
Db 2517 AGCTTTGGCATTTGTCTGTGGGAGGTGATGACCTATGCGGAGCGGCCCTACTCGGAGTTG 2576

QY 2154 AGCAATCAGCAGACACGGGAGTTTGTGAGAAAGGGGGCGCTGCTGCCCTGCCAGAGCTG 2213
Db 2577 TCCAACACGAGGTGATGAAAGCCATCAATGATGGCTTCGGCTCCCAACCATCGAC 2636
QY 2214 TGTCTGTATGCGGTGTTAGGCTCATGGAGCAGTGTGGGCTTATGAGCTCGGACGG 2273
Db 2637 TGGCCCTCCGCATCTACCAGCTCATGATGCTGTGGCAGGAGCGTGCCTGCCCGC 2696
QY 2274 CCCAGCTTCAGCACCATCTACCAGGAGCTGCAGAGCATC 2312
Db 2697 CCCAAGTTCGCTGACATCGTCAGCATCTCGGACAAGCTC 2735

RESULT 11
US-09-949-016-2120
; Sequence 2120, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2120
; LENGTH: 3921
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2120

Query Match 6.9%; Score 185.4; DB 4; Length 3921;
Best Local Similarity 55.1%; Pred. No. 8.9e-24;
Matches 385; Conservative 0; Mismatches 311; Indels 3; Gaps 1;

QY 1617 CTGGTGGCGTGAAGTCTTGTGAGAGAGCGCTCCACCTGACCTCAAGGCCAAGTTTCTA 1676
Db 2037 CCGGTGGCCATCAAGCGCTGAAAGCGGCTACACAGAGAAGCAGCGAGTGGACTTCCTC 2096
QY 1677 CAGGAAGCGAGATCTTGAAGAGTACAGCCACCCCAACATCGTGGTCTCATTTGGTGTG 1736
Db 2097 GCGAGGCGCGCATCATGCGGCCAGTTTCAGCCACCAACATCATCGCTTAGAGGGCGTC 2156
QY 1737 TGCACCCAGAGCAGCGCCATCTACATGCTCATGAGCTTGTGAGGGGGCGACTTCCTG 1796
Db 2157 ATCTCAAAATACAAGCCCATGATGATCATCTAGTACATGAGAAATGGGGCCCTGGAC 2216
QY 1797 ACCTTCTCCGACCGAGGGGGCCCGCTCGGGGTGAAGACTCTGCTGCAGATGGTGGG 1856
Db 2217 AAGTCTCTCGGAGAAGGATGCGGAGTTTCAGCGTGTGAGCTGGGCGCATGCTGCGG 2276
QY 1857 GATGAGCTCTGGCATGGGTACCTGGAGAGCAAGTGTGCTATCCACCGGACCTGGCT 1916
Db 2277 GGCATCGCAGCTGGCATGAAGTACCTGGCCCAACATGAATATGTGCACCGTGAACCTGGCT 2336
QY 1917 GCTCGGAATCGCTGGTGAAGAGAAATGCTCTGAAGATCAGTGAATTTGGGATGTC 1976
Db 2337 GCCCGCAATCTCTGTCACAGCAACCTGGTGTGCAAGGTGTCTGACTTTGGCCCTGTCC 2396
QY 1977 CGAGAGGAAGCGATGGGGTCTATGAGCCT---CAGGGGGCCCTCAGACAAGTCCCGTG 2033
Db 2397 CGCGTGTGGAGGACGACCCGAGGCCACCTACACACAGTGGCGGCAAGATCCCAATC 2456
QY 2034 AAGTGAACCGACCTGAGGCCCTTAAGTACGGCGGTACTCTCCGAAAGCGAGTGTGG 2093
Db 2457 CGCTGGAACCGCCCGGAGGCAATTTCTACCGAAGTTTCACTCTGCGAGCGAGTGTGG 2456
QY 2094 AGCTTTGGCATCTTGTCTCGGAGACCTTTCAGCTGGGGCCCTCCCTATCCCAACTC 2153
Db 2517 AGCTTTGGCATTTGTCTGTGGGAGGTGATGACCTATGCGGAGCGGCCCTACTCGGAGTTG 2576

Db 2457 CGCTGGACCCCGCGAGGCCATTTCTACCGGAAGTTACCTCTGCCAGCAGCTGTGG 2516
Qy 2094 AGCTTTGGCATTTGCTCTGGGAGACCTTCAGCCTGGGGCCCTCCCTTATCCCAACCTC 2153
Db 2517 AGCTTTGGCATTTGCTCTGGGAGGTGATGACCTATGGCGAGGGCCCTACTGGGAGTTG 2576
Qy 2154 AGCAATCAGCAGACACGGGAGTTTGTGGAGAGGGGGCGCTGTGCCCTGCCAGAGCTG 2213
Db 2577 TCCAACACAGAGGTGATGAAGCCATCAATGATGGCTTCGGCTCCCAACCCATGGAC 2636
Qy 2214 TGTCTCTGATCCCTGTTTCAGGCTCATGGAGCAGTGTCTGGGCTATGAGCCTGGGAGCGG 2273
Db 2637 TGCCCTCCGCCATCTACAGCTCATGATGCAATGCTGGCAGCAGGAGCGTGTCCGCGC 2696
Qy 2274 CCAGCTTCAGCACCATCTACAGGAGCTGCAGAGCATC 2312
Db 2697 CCCAAGTTGGCTGACATCTGACGATCTGTCGACATCTGTCGACAGCTC 2735

RESULT 12
US-09-949-016-5662
; Sequence 5662, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5662
; LENGTH: 3386
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-5662

Query Match 6.5%; Score 174.6; DB 4; Length 3386;
Best Local Similarity 54.7%; Pred. No. 7.1e-22;
Matches 392; Conservative 0; Mismatches 319; Indels 6; Gaps 2;

Qy 1569 GGGAACTTTGGCGAAGTGTTCAGCGGACCGCTCGAGCCGCAACACCCCTGGTGGCGGTG 1628
Db 1386 GGGAGGTCTATGAAGGTGTCTACAAATCAAAAGGGGAGAAAATCAATGTAGCTGTC 1445
Qy 1629 AGCTTTGTGAGAGACGCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAACGAGG 1688
Db 1446 AAGACCTGCAAGAAAGACTGCACTTGGACACACAGGAGAGTTTATGAGGCGCAGTG 1505
Qy 1689 ATCTTCAAGCAGTACAGCACCACCAACATCGTGTCTCATTTGTGTGACCCAGAG 1748
Db 1506 ATCATGAGAACTCGACCCCGCACATCTGTGAAGCTGATCGGCAT---CATTTGAAGAG 1562
Qy 1749 CAGCCCATCTACATCGTTCATGGAGCTTGTGAGGGGGCGGACTTCTGACCTTCTCCG 1808
Db 1563 GAGCCACCTGGATCATCATGGAATTTGATCCCTATGGGAGCTGGGCGACTACCTGGAG 1622
Qy 1809 ACGGAGGGGGCCCTGGGGTGAAGACTCTGTGTGAGATGTTGGGGGATGCAGCTGCT 1868
Db 1623 CGAACAAGAACTCCCTGAAGGTGTCAACCTCGTGTGACTCACTGCAGATATGCAA 1682
Qy 1869 GCATGGAGTACCTGGAGCAAGTGTGATCAACCGGACCTGGTGTCTCGAAGTGC 1928
Db 1683 GCCATGGCTACCTGGAGAGATCAATCGTGTGACAGGACATTTGCTGCCGGAATC 1742
Qy 1929 CTGGTGACAGAGAGATGTCCTGAAGATCAGTGAAGTGTGGGATGTCCCGAGAGAGGCC 1988

Db 1743 CTGTGGCTCCCTGAGTGTGTAAGCTGGGGGACTTTTGGTCTTCCCGGTACATTGAG 1802
Qy 1989 GATGGGTCTATGAGCCTTCAGGGGGCTCAGACAAAGTCCCGTGAAGTGGACCGACCT 2048
Db 1803 GACGAGGACTAT---TACAAAGCCTCTGTGACTCGTCTCCCCATCAATGGATGTCCCCA 1859
Qy 2049 GAGGCCCTTAACCTACCGCGCTACTCTCGAAAGCAGCTGTGGAGCTTTGGCATTTG 2108
Db 1860 GAGTCATTAATCTCCAGCGCTTCACGACAGCAGCAGTGTGATGTTCCCGGTGTC 1919
Qy 2109 CTCTGGAGACCTTCAGCCTGGGGGCTCCCTATFCCCAACCTCAGCAATCAGCAGACA 2168
Db 1920 ATGTGGGAGATCTGAGCTTTGGGAAGCAGCCCTTCTTCTGGCTGGAGAACAGGATGTC 1979
Qy 2169 CGGAGTGTGTGGAGAGGGGGCGTGTGCGCTGCCAGAGCTGTGCTGATGCCGTG 2228
Db 1980 ATCGGGGTCTGGAGAAAGGAGACCGGCTGCCAAGCCTGATCTCTGCCACCGTCTT 2039
Qy 2229 TTCAGGCTCATGGAGCAGTGTCTGGGCTTATGAGCCTGGGCGCGCCAGCTTCAGC 2285
Db 2040 TATACCTCATGACCGCTGCTGGGACTACGACCCAGTACGACCCGCGCCCTTACC 2096

RESULT 13
US-08-357-642A-2
; Sequence 2, Application US/08357642A
; Patent No. 5837524
; GENERAL INFORMATION:
; APPLICANT: Sima Lev
; TITLE OF INVENTION: Joseph Schlessinger
; TITLE OF INVENTION: PYK2 RELATED PRODUCTS
; TITLE OF INVENTION: AND METHODS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/357,642A
; FILING DATE: December 15, 1994
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/070
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3416
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: nucleic
US-08-357-642A-2

Query Match 6.5%; Score 174.6; DB 2; Length 3416;


```
Best Local Similarity 54.78; Pred. No. 7.1e-22;
Matches 392; Conservative 0; Mismatches 319; Indels 6; Gaps 2;

QY 1569 GGGAACTTTGGCGAAGTGTTCAGCGGACGCTCGGAGCCGACAAACACCTCTGGTGGCGGTG 1628
Db 1416 GGGGAGTCTATGAAGTGTCTACACAAATCACAAAGGGGAGAAATCAATGTAGTGTGTC 1475
QY 1629 AAGTCTTGTGAGAGAGCTCCACCTGACCTCAGGCCAAGTTTCTACAGGAAGCGAGG 1688
Db 1476 AAGACCTTGAAGAAGACTGCATCTGGACAACAAGAGAAGTTTCATGACGAGGCGAGTG 1535
QY 1689 ATCTGAAGCAGTACAGCCACCCCAACATCGTGGCTCATTTGGTGTCTGCACCCAGAAG 1748
Db 1536 ATCATGAAGAACCTCGACCACTCGTGAAGCTGTGAAGCTGTATCGCAT---CATTTGAAGAG 1592
QY 1749 CAGCCCATCTACATCGTTCATGGAGCTTGTGAGGGGGGCGACTTCTGACCTTCTCCCGC 1808
Db 1593 GAGCCCACTGGATCATCATGTAATTGTATCCCTATGCGGAGCTGGGCCACTACCTGGAG 1652
QY 1809 ACGAGGGGGCCGCTCGCGGTGAAGACTCTGCTGAGATGGTGGGGGATGACGTGCT 1868
Db 1653 CGGAACAAGAACTCCCTGAAGTGTCTCACCCTCGTGTACTCACTGCAGATATGCAAA 1712
QY 1869 GGCATGAGTACCTGGAGAGCAAGTGTCTGATCCACCGGACCTGGCTGCTCGGAATGC 1928
Db 1713 GGCATGGCTTACCTGGAGAGCAATCACTGGGTGCACAGGAGCATTTGCTGCCGAACATC 1772
QY 1929 CTGCTGACAGAGAAGAAATCTCTGAAGATCAGTGACTTTTGGGATGTCCCGAGAGGAGCC 1988
Db 1773 CTGGTGGCTCCCTGAGTGTGTGAAGCTGGGAGCTTTGGTCTTCCCGGTACATTGAG 1832
QY 1989 GATGGGTCTATGAGCCTCAGGGGGCTCAGACAAAGTCCCGTGAAGTGGACCGACCT 2048
Db 1833 GAGCAGGACTAT---TACAAAGCCTCTGTGACTCGTCTCCCATCAATGATGATGCCCA 1889
QY 2049 GAGGCCCTTAACCTACGCGCTACTCTCCGAAGCAGCTGTGGAGCTTTGGCATCTTG 2108
Db 1890 GAGTCCATTAACTTCCGACGCTTACAGACAGCAGTGTGATGTTCCGCGGTGTC 1949
QY 2109 CTCTGGAGACCTTCAGCCTGGGGGCTCCCGCTATCCCAACCTCAGCAATCAGCAGACA 2168
Db 1950 ATGTGGAGATCTGAGCTTTGGAGAGAGAGACCGGCTGCCAAAGCCTGATCTCTGCCACCGGTCCTT 2069
QY 2229 TTCAGGCTCATGAGCAGTGTCTGGGCTATGAGCTGGGCGAGCGGCCAGCTTCAGC 2285
Db 2070 TATACCTCATGACCCGCTCTGGGACTACGACCCAGTACCGGCGCCGCTTCAC 2126
```

RESULT 14

US-08-460-626-2

```
; Sequence 2, Application US/08460626
; Patent No. 5837815
; GENERAL INFORMATION:
; APPLICANT: SIMA LEV
; APPLICANT: JOSEPH SCHLESSINGER
; TITLE OF INVENTION: PYK-2 RELATED PRODUCTS AND
; TITLE OF INVENTION: METHODS
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
```

```
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/460,626
; FILING DATE: June 2, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/357,642
; FILING DATE: December 15, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 211/121
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3416
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-460-626-2

Query Match 6.5%; Score 174.6; DB 2; Length 3416;
Best Local Similarity 54.7%; Pred. No. 7.1e-22;
Matches 392; Conservative 0; Mismatches 319; Indels 6; Gaps 2;

QY 1569 GGGAACTTTGGCGAAGTGTTCAGCGGACGCTCGGAGCCGACAAACACCTCTGGTGGCGGTG 1628
Db 1416 GGGGAGTCTATGAAGTGTCTACACAAATCACAAAGGGGAGAAATCAATGTAGTGTGTC 1475
QY 1629 AAGTCTTGTGAGAGAGCTCCACCTGACCTCAGGCCAAGTTTCTACAGGAAGCGAGG 1688
Db 1476 AAGACCTTGAAGAAGACTGCATCTGGACAACAAGAGAAGTTTCATGACGAGGCGAGTG 1535
QY 1689 ATCTGAAGCAGTACAGCCACCCCAACATCGTGGCTCATTTGGTGTCTGCACCCAGAAG 1748
Db 1536 ATCATGAAGAACCTCGACCACTCGTGAAGCTGTGAAGCTGTATCGCAT---CATTTGAAGAG 1592
QY 1749 CAGCCCATCTACATCGTTCATGGAGCTTGTGAGGGGGGCGACTTCTGACCTTCTCCCGC 1808
Db 1593 GAGCCCACTGGATCATCATGTAATTGTATCCCTATGCGGAGCTGGGCCACTACCTGGAG 1652
QY 1809 ACGAGGGGGCCGCTCGCGGTGAAGACTCTGCTGACAGATGGTGGGGATGACGTGCT 1868
Db 1653 CGGAACAAGAACTCCCTGAAGTGTCTCACCCTCGTGTACTCACTGCAGATATGCAAA 1712
QY 1869 GGCATGAGTACCTGGAGAGCAAGTGTCTGATCCACCGGACCTGGCTGCTCGGAATGC 1928
Db 1713 GGCATGGCTTACCTGGAGAGCAATCACTGGGTGCACAGGAGCATTTGCTGCCGAACATC 1772
QY 1929 CTGCTGACAGAGAAGAAATCTCTGAAGATCAGTGACTTTTGGGATGTCCCGAGAGGAGCC 1988
Db 1773 CTGGTGGCTCCCTGAGTGTGTGAAGCTGGGAGCTTTGGTCTTCCCGGTACATTGAG 1832
QY 1989 GATGGGTCTATGAGCCTCAGGGGGCTCAGACAAAGTCCCGTGAAGTGGACCGACCT 2048
Db 1833 GAGCAGGACTAT---TACAAAGCCTCTGTGACTCGTCTCCCATCAATGATGATGCCCA 1889
QY 2049 GAGGCCCTTAACCTACGCGCTACTCTCCGAAGCAGCTGTGGAGCTTTGGCATCTTG 2108
Db 1890 GAGTCCATTAACTTCCGACGCTTACAGACAGCAGTGTGATGTTCCGCGGTGTC 1949
QY 2109 CTCTGGAGACCTTCAGCCTGGGGGCTCCCGCTATCCCAACCTCAGCAATCAGCAGACA 2168
Db 1950 ATGTGGAGATCTGAGCTTTGGAGAGAGAGACCGGCTGCCAAAGCCTGATCTCTGCCACCGGTCCTT 2069
QY 2229 TTCAGGCTCATGAGCAGTGTCTGGGCTATGAGCTGGGCGAGCGGCCAGCTTCAGC 2285
Db 2070 TATACCTCATGACCCGCTCTGGGACTACGACCCAGTACCGGCGCCGCTTCAC 2126
```

Qy 2229 TTCAGGCTCATGGAGCAGTGTGGGCTATGAGCTGGCGAGGCCAGCTTCAGC 2285
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Dδ 2070 TATACCTCATGACCCGGTGCTGGACTAGCACCCAGTAGCCGGCCCCCGCTCACC 2126

RESULT 15

US-09-016-434-1483
; Sequence 1483, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.

Query Match	6.5%;	Score 174.6;	DB 4;	Length 3416;
Best Local Similarity	54.7%;	Pred. No. 7.1e-22;		
Matches 392;	Conservative 0;	Mismatches 319;	Indels 6;	Gaps 2;
QY	GGGAACCTTGGCGAAGTGTTCAGCGAGACGCTGCGAGCGCGACACACCTCGTGGCGCGTG	1569		
Db	GGGGAGGTCTATGAAGTGTCTACACAAATCACAAAGGGGAGAAAATCAATGTAGCTGTC	1416		
QY	AAGTCTTGTGAGAGAGCGTCCCACTGACCTCAAGGCCAAGTTTCTACAGAAAGCGAGG	1629		
Db	AAGACCTTGCAGAAAGACTGCACCTCTGGACACACAGGAGAAGTTTCATGAGCGAGCGAGTG	1476		
QY	ATCCTGAAGCAGTACAGCCACACCCCAACATCTGTCGGTCTCATTTGSGTGTGCACCCAGAAG	1689		
Db	ATCATGAAGAACCTTCGACCACCCGCACATCTGTAGACTCATCGGAT---CATTTAAGAG	1536		
QY	CAGCCCATCTACATGTCATGAGCTTGTGCAGGGGGGCGACTTCCTGACCTTCCTCCG	1749		
Db	GAGCCCACTTGGATCATCATGGAATTTGATCCTCATGGGAGCTGGGCCACTACTCTGGAG	1593		

Qy	1809	ACGAGGGGGCCCGCTCGCGGGTGAAGACTCTGCTGCAGATGTTGGGGGATGCAGCTGCT	1868
Db	1653	CGGAACAAGAACTCCCTGAAGTGTGCTCACCTCGTGTACTCACTGCAGATATGCAA	1712
Qy	1869	GGCATGGATACCTGGAGAGCAAGTGTGCATCCACGGGACCTGCTGCTCGGAACTGC	1928
Db	1713	GCCATGGCTTACTTGGAGAGCATCACTGGTGCACAGGAGCAATGCTGTCCGGAATC	1772
Qy	1929	CTGGTGACAGAGAAGATGTCCTGAAGATCAGTGTACTTTGGGATGTCCCAGAGGAAGCC	1988
Db	1773	CTGTGGCTCCCTCGATGTGTGAAGCTGGGGACTTTGGTCTTTCCCGGTACATTGAG	1832
Qy	1989	GATGGGCTCTATCAGCCCTCAGGGGCTCAGACAAGTCCCCTGAAGTGGACCGCACCT	2048
Db	1833	GACGAGACTAT---TACAAAGCCTCTGTGACTGTCTCCCCATCAAAATGGATGTCCCCA	1889
Qy	2049	GAGGCCCTTAACCTACGGCCGCTACTCCTCCGAAGCGAGCTGTGGAGCTTTGGCATCTTG	2108
Db	1890	GAGTCCATTAACTTCGCGAGCTTCACAGACGCCAGTGAAGTCTGGATGTTGCGCGTGTGC	1949
Qy	2109	CTCTGGGAGACTTCAGCCTGGGGGCTCCGCTATCCCAACTCAGCAATCAGCAGACA	2168
Db	1950	ATGTGGGAGATCTGAGCTTTGGGAAGCAGCCCTTCTTGGCTGGAGAACGAAGATGTC	2009
Qy	2169	CGGGAGTTTGTGAGAAAGGGGGCGCTGTGCCCTGCCACAGAGCTGTGTCCTGATCCGCTG	2228
Db	2010	ATCGGGGTCTGGAGAAAGGAGACCGGCTGCCCAAGCCTGATCTCTGTCCACGGTCTTT	2069
Qy	2229	TTCAGGCTCATGAGCAGTGTCTGGGCTTATGAGCTTGGCAGCGGCCCACTTCAGC	2285
Db	2070	TATACCTCATGACCCGCTGTGGACTACGACCCCACTGACCGGCCCGCTTACC	2126

Search completed: August 9, 2005, 21:35:02
Job time : 595.209 secs